

Proposal # 2001- E-213 (Office Use Only)

PSP Cover Sheet (Attach to the front of each proposal)

Proposal Title: Educating Farmers and Landowners in Biological Resource Management
 Applicant Name: Community Alliance with Family FARMERS (CAFF)
 Contact Name: JAMES R. TISCHER, EXECUTIVE DIRECTOR
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Amount of funding requested: \$ 1,066,593

Some entities charge different costs dependent on the source of the funds. If it is different for state or federal funds list below.

State cost _____

Federal cost _____

Cost share partners? _____

Yes ☐ No ☒

Identify partners and amount contributed by each _____

Indicate the Topic for which you are applying (check only one box).

- | | |
|--|--|
| <input type="checkbox"/> Natural Flow Regimes | <input type="checkbox"/> Beyond the Riparian Corridor |
| <input type="checkbox"/> Nonnative Invasive Species | <input type="checkbox"/> Local Watershed Stewardship |
| <input type="checkbox"/> Channel Dynamics/Sediment Transport | <input checked="" type="checkbox"/> Environmental Education |
| <input type="checkbox"/> Flood Management | <input type="checkbox"/> Special Status Species Surveys and Studies |
| <input type="checkbox"/> Shallow Water Tidal/ Marsh Habitat | <input type="checkbox"/> Fishery Monitoring, Assessment and Research |
| <input type="checkbox"/> Contaminants | <input type="checkbox"/> Fish Screens |

What county or counties is the project located in? Solano County / Merced County / Yolo County

What CALFED ecozone is the project located in? See attached list and indicate number. Be as specific as possible Solano County in Yolo Basin / Zone 10

East San Joaquin Basin / Zone 13

Indicate the type of applicant (check only one box):

- | | |
|--|--|
| <input type="checkbox"/> State agency | <input type="checkbox"/> Federal agency |
| <input type="checkbox"/> Public/Non-profit joint venture | <input checked="" type="checkbox"/> Non-profit |
| <input type="checkbox"/> Local government/district | <input type="checkbox"/> Tribes |
| <input type="checkbox"/> University | <input type="checkbox"/> Private party |
| <input type="checkbox"/> Other: _____ | |

Indicate the primary species which the proposal addresses (check all that apply):

- | | |
|--|---|
| <input type="checkbox"/> San Joaquin and East-side Delta tributaries fall-run chinook salmon | <input checked="" type="checkbox"/> Spring-run chinook salmon |
| <input type="checkbox"/> Winter-run chinook salmon | <input checked="" type="checkbox"/> Fall-run chinook salmon |
| <input type="checkbox"/> Late-fall run chinook salmon | <input type="checkbox"/> Longfin smelt |
| <input type="checkbox"/> Delta smelt | <input checked="" type="checkbox"/> Steelhead trout |
| <input type="checkbox"/> Splittail | <input type="checkbox"/> Striped bass |
| <input type="checkbox"/> Green sturgeon | <input checked="" type="checkbox"/> All chinook species |
| <input type="checkbox"/> White Sturgeon | <input type="checkbox"/> All anadromous salmonids |
| <input checked="" type="checkbox"/> Waterfowl and Shorebirds | <input type="checkbox"/> American shad |
| <input checked="" type="checkbox"/> Migratory birds (Yolo Co.) | |
| <input type="checkbox"/> Other listed T/E species: <u>plants / plant communities</u> | |

Indicate the type of project (check only one box):

- | | |
|--|---|
| <input type="checkbox"/> Research/Monitoring | <input type="checkbox"/> Watershed Planning |
| <input type="checkbox"/> Pilot/Demo Project | <input checked="" type="checkbox"/> Education |
| <input type="checkbox"/> Full-scale Implementation | |

Is this a next-phase of an ongoing project? Yes ☒ No ☐

Have you received funding from CALFED before? Yes ☒ No ☐

If yes, list project title and CALFED number 97-N20 "Reduction of Synthetic Pesticides and

Have you received funding from CVPIA before? Yes ☐ No ☒ Fertilizers in Five California Counties -

If yes, list CVPIA program providing funding, project title and CVPIA number (if applicable): The BIOS Strategy"

By signing below, the applicant declares the following:

- The truthfulness of all representations in their proposal;
- The individual signing the form is entitled to submit the application on behalf of the applicant (if the applicant is an entity or organization); and
- The person submitting the application has read and understood the conflict of interest and confidentiality discussion in the PSP (Section 2.4) and waives any and all rights to privacy and confidentiality of the proposal on behalf of the applicant, to the extent as provided in the Section.

James R. Tischer

Printed name of applicant

James R Tischer

Signature of applicant

Executive Summary

Project Title: Educating Farmers and Landowners in Biological Resource Management
Amount Requested: \$1,066,593
Applicant Name: Community Alliance with Family Farmers
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Collaborators: Marcia Gibbs, Ulatris Resource Conservation District (URCD)
Frank Morris, Solano County Water Association (SCWA)

With this project, CAFF proposes to educate farmers and landowners in several CALFED target watersheds about crucial issues facing the regional ecosystem. CAFF is currently in the third year of a CALFED-funded project that has significantly reduced pesticide and fertilizer use through farmer-to-farmer outreach, education and technical assistance. This project continues that work and expands it by bringing to farmers and landowners a package of technical expertise that includes a full array of biological and watershed management practices. These practices will reduce agricultural inputs into the waterways and will present farmers and landowners with practical techniques for restoring habitat. The project includes establishing two specific demonstration sites that will be evaluated, cleaned up, revegetated, restored, and simultaneously used as a working model for educational purposes.

CAFF will collaborate with local public and private organizations on the assumption that improved communication and coordination has a synergistic effect in building awareness of watershed issues and establishing biological resource management practices. CAFF has a successful history of collaborating with local agencies. Several agencies have technical expertise but lack the networking experience of CAFF, and have not been able to build coalitions that include farmers and landowners. CAFF's sophisticated media and outreach program will leverage the resources that other agencies bring to watershed restoration projects. CAFF's approach of partnering with farmers and landowners gives those people who depend on aquatic resources for their livelihood an active role in the management of those resources.

The overall goal of this project is to improve water quality and the aquatic systems in the region by eliminating or reducing toxic inputs such as pesticides and fertilizers, and by restoring functional habitat through a variety of management practices. We assume that if offered high quality educational information, technical expertise, customized plans, and information about the economic viability of implementing restoration practices, farmers and landowners will willingly make long-term environmental improvements. Further, they will demonstrate to others that it can be done, and in that way will help minimize the multitude of activities that can degrade the watershed.

CAFF's holistic approach will yield results on several dimensions. For a group of self-selected participating grower/landowners, toxic inputs (pesticides, fertilizers) into the watershed will be significantly reduced. Region-wide, awareness of watershed issues and attitudes towards reconstruction will increase. We expect a significant increase in the number of habitat restoration practices (e.g., owl and bat boxes, riparian corridors) on farms and lands. Finally we expect an improvement in water quality and habitat in the designated demonstration site areas. These areas will be tested through contracted pre- and post- surveys and studies, and by water quality sampling.

CAFF's program will leverage the interests and resources of local landowners and other stakeholders in order to further the goals of improving the Bay-Delta's ecological functions and encouraging its diverse and valuable plant and animal species.

Educating Farmers and Landowners in Biological Resource Management

Community Alliance with Family Farmers

**Proposal to
CALFED Bay-Delta Program
May 2000**



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**Type of Organization: Nonprofit 501 (c)(3)
Tax Identification Number: 94-2914745**

Community Alliance with Family Farmers: Educating Farmers and Landowners In Biological Resource Management

Project Description

1. Problems and Objectives

"The health of our waters is the principal measure of how we live on the land."
-- Luna Leopold

Water ecosystems and aquatic habitat are adversely affected by agricultural inputs. According to the United States Environmental Protection Agency 1994 *National Water Quality Survey*, nearly 40 percent of surveyed waters in the U.S. remain too polluted for fishing, swimming and other uses. (U.S. EPA) Evidence is plentiful that pesticides, herbicides and fertilizers contribute significantly to the degradation of the estuarine ecosystem, particularly the rivers feeding from the California Central Valley into the Bay Delta estuary. Despite some progress in this area, agricultural use of pesticides, herbicides and fertilizers is still a major contributing factor in nonpoint source pollution.

In the Delta, at least 55 species of fish have been recorded, 25 of them native. Many of these species, both native and introduced, are in decline (USFWS, 1996). According to the US National Fish and Wildlife study, the upper portions of the Sacramento-San Joaquin Rivers are the most highly altered part of the system, and this is where most problems for fish species exist. The presence of acute and chronic toxins and the use of water for agricultural irrigation are major factors causing decline in species such as the thick-tail chub, the San Joaquin spring-run salmon and Sacramento perch (USFWS, 1996). Certain pesticides may also cause reproductive failure and endocrine system abnormalities in both wildlife and humans (Colborn and Clement, 1992; Guillette, 1995; Sharpe and Skakkebaek, 1993). These facts call for an emphasis on farmer outreach to encourage adoption of biological farming practices.

Water quality and habitat management practices also negatively impact the Central Valley watersheds. Over time, on-farm water management has developed with few incentives for highly efficient application techniques. Many farmers and landowners do not take full advantage of new methods that are also economically competitive. The complicated relationship between efficiency gains on one farm and the benefits to the entire water system have not been sufficiently explored in the agricultural setting. Numerous problems impact the estuarine system including poor soil quality, sedimentation and erosion. (Sarrantonio et. al., 1996)

Farm landscape dominates a good part of critical habitat area in Bay Delta target regions, yet many farms and other lands are not managed to provide water quality and wildlife benefits. Many farmers and landowners are unaware of techniques for encouraging wildlife on their land and may be overly concerned about perceived negative impacts. They need information about the benefits of a diverse agro-ecosystem as well as training in cost-effective techniques for rebuilding natural ecosystems. Very little practical information is currently available to farmers on the use of native grasses in stabilizing ditches and waterways, the importance of flowering hedgerows as habitat for beneficial insects, or the benefits of bats and raptors in controlling farm pests. Few landowners maintain stream corridors that benefit both water quality and wildlife habitat. Where the interface between human systems and ecosystems is strong, landowners need to be informed and brought into the management decision-making process.

Biologically based systems for managing land have been shown to reduce the need for chemical pesticides and fertilizers, increase water use efficiency and provide habitat for wildlife. However, many farmers and landowners do not recognize these management practices, have little information about them, and do not understand the positive economic impacts of biological agriculture. A 1996 study of Central Valley grower attitudes towards biological farming practices shows that almost half of the respondents strongly agree that biological farming practices "minimize environmental and public health risks (48%, N=260)," but only 18% strongly agree that they optimize economic returns. (Dlott and Haley, 1998) Other studies have shown that economic returns for growers using biological farming practices are on a par with growers not using them. (Klonsky and Tourte, 1998) It appears that growers focus on regulatory constraints and perhaps worry unnecessarily about economic impacts. Both concerns can detract from the economic and ecological opportunities that accompany biological farming methods.

Solutions

To solve problems in the Bay Delta watershed, partnerships must be established between farmers, landowners and other stakeholders to enhance communication and provide technical information and education about ways to improve ecosystem management for the benefit of the watershed. If we can show farmers and landowners that their economic interests will not be harmed by using biological management practices, we can begin to make long-term progress in reducing toxic inputs and restoring the Delta's waterways. It is even more to our benefit to engage farmers and landowners in the process of rehabilitation.

Evidence now exists to support educational partnership paradigms to transform the ecological health of land and waterways. Studies identify grower attitudes and values as one of the significant barriers to implementing change. (Pence, 1998; Grant, 2000) According to a World Resources Institute report by Lori Ann Thrupp, the conventional methods of information dissemination, which are to publish research results or institute regulations, "...have recognized flaws...Often the top-down orientation does not address farmer needs and local conditions...Moreover, there are commonly gaps or tensions between the groups, such as weak institutional links, lack of coordination or competition, all of which impede progress in this approach." (Thrupp, 1996)

Goals and Objectives

The Community Alliance with Family Farmers (CAFF) has a long history of farmer-to-farmer education and outreach programs that are successful in technology transfer and that result in measurable reductions in pesticide and fertilizer use. (Lighthall, 2000; Thrupp, 1996; Villarejo and Moore, 1998) CAFF proposes to build on farmer-to-farmer outreach, education and technical assistance programs already partially funded by CALFED. The project will engage farmers and landowners as stewardship leaders to demonstrate the benefits of biological farming and habitat restoration practices. CAFF will enable farmers and landowners to become partners in the CALFED ecosystem restoration. This will help ensure lasting results in restoring the Bay-Delta ecosystem.

We will expand current work by bringing farmers and landowners a package of technical expertise that includes biological farming and watershed management practices. These practices will reduce agricultural inputs into the waterways and give farmers and landowners practical techniques for restoring habitat.

In this phase, we will target lands that border on creeks or that impact watersheds. We will offer region-wide educational events and will work with individual farmers and landowners on customized farm/land plans for resource management. Concurrently, we will work directly with local organizations that do not have intensive outreach and education, so that practices can be implemented on a wider scale and over a longer period of time. In collaboration with the local organizations, demonstration sites will be cleaned up and restored throughout the project. These sites will be used for on-the-ground education, and as working models for restoration work. This project has multiple benefits for water quality and conservation and habitat enhancement, as well as for public awareness of those issues.

CAFF's programs address ERP goals with a proven method that simultaneously:

- adapts farming practices to benefit the ecosystem
- relies on partnerships with local agencies and organizations

- conducts outreach that increases the appreciation for and adoption of sustainable agriculture in farming communities
- documents the economic and environmental impacts of sustainable agriculture.

Goals and objectives include the following:

1. Increase farmers/landowners' knowledge about restoration practices.

- Engage farmers as partners in restoration activities through use of the model developed in CAFF's BIOS program
- Enhance farmers/landowners' appreciation of the historical character of the Bay Delta's ecosystem
- Educate farmers and landowners about watershed issues
- Bring necessary expertise to farmers for reconstructing natural riparian areas and wildlife zones
- Educate landowners about cost effective methods of restoration and rehabilitation
- Explore ways to increase farm income through enhanced wildlife and restoration

2. Increase use of biological management practices that benefit the ecosystem.

- Increase monitoring for pest and beneficial insects in order to reduce pesticide sprays
- Increase planting of cover crops and filter strips for beneficial organisms and soil and water health
- Increase practice of nitrogen budgeting to reduce unnecessary fertilizer inputs
- Educate growers on options to reduce overall use of pesticides (especially organophosphates) and herbicides

3. Improve water management practices related to sedimentation, erosion and water use efficiency.

- Determine water quality in specified watershed regions
- Increase understanding and use of efficient water management practices
- Reduce erosion and sedimentation (increase oxygen levels in water)
- Establish buffer strips and borders along riparian and restoration areas
- Establish tailwater ponds and use of California native shrubs and grasses

4. Increase use of beneficial wildlife habitat management practices.

- Educate landowners about cost effective ways to improve habitat
- Demonstrate practices that attract bats, owls, raptors, and other desirable plant and animal species
- Demonstrate the installation of hedgerows for wildlife habitat
- Provide information about insectary plants for pests' natural enemies
- Explore the use of vegetation buffer strips between fields and roads and fields and waterways

Conceptual model

CAFF's conceptual model simultaneously addresses the ecosystem and the human system. We acknowledge that certain agricultural practices adversely affect the environment and address this problem with a participatory learning model.

Ecosystem degradation can be caused by agricultural activities (see Table 1). Agricultural inputs — pesticides, herbicides, fertilizers, fungicides, fumigants — contribute significantly to the degradation of California's water and ecosystems. In addition, practices such as overgrazing can degrade and inhibit reconstruction of riparian areas and wildlife zones. Some examples are inefficient water use; tillage as opposed to planting of cover crops; construction of drainage canals as opposed to reconstruction of natural streams and banks; and strip weeding as opposed to use of native grasses and shrubs for rebuilding stream beds. This model asserts that reduction in toxic inputs combined with implementation of beneficial practices will contribute to the restoration of the whole ecosystem (see Table 2).

CAFF assumes that changes in management practices can address ecosystem degradation while maintaining land value. We further assume that technology transfer programs are most successful when they take advantage of on-the-ground expertise of farmers, landowners and other professional stakeholders.

Conventional processes of agricultural technology development and information transfer are "top-down," generally moving from research institutions through several channels down to the farmer in the field.

Our methodology is based on partnership in learning, collaboration and cooperation among many stakeholders, with farmer-to-farmer information transfer as a crucial element. (see Table 3)

Numerous human barriers exist to implementing management practices that benefit the environment. Chief among these are attitudes and values of the growers and landowners who make daily decisions about land stewardship. In a conventional information-transfer model, research is conducted by scientists at universities or chemical companies. It is published in journals that growers/landowners have little access to. Information is also transferred to regulatory agencies, or from universities to companies' research divisions. In some cases, university extension advisors fill the role of imparting research information to farmers or landowners. In other cases Pest Control Advisors (PCAs), the majority of whom are employees of chemical companies, advise farmers.

Several problems result from this kind of technology and information transfer. PCAs who work for chemical companies have a vested interest in promoting chemical inputs. Even information discovered by university scientists often becomes encumbered by regulations and is not easily accessible to farmers. Farmers are themselves the best experts in their own operations, and need a context for sharing that knowledge and experience with others. The most crucial principle is that farmers' own knowledge and experience cannot be ignored.

CAFF's model for agricultural learning partnerships is based on participatory learning and has been shown to yield positive results in:

- Reducing agrochemical inputs and costs, as well as health risks
- Managing pests and diseases at acceptable levels
- Improving soil and water quality
- Maintaining or increasing crop yields
- Implementing management practices that enhance ecosystems
- Empowering farmers and local communities (Thrupp, 1996)

Because agriculture is the economic cornerstone of many Central Valley communities and because so much land is managed by farmers, it is important that the agricultural community views itself as a partner in the restoration effort. See Table 4 for key elements of the participatory learning model pioneered by CAFF.

Hypotheses being tested

CAFF's overall hypothesis is that we can achieve two of the Ecosystem Restoration Goals through direct farmer-to-farmer education and outreach, using the participatory learning model. Specifically we hypothesize that:

Participating farmers will implement new biological farming practices and wildlife- and water-friendly management practices on their farms. These practices will have the effect of reducing toxic inputs into the estuarine system as well as building beneficial habitat for species protection.

These alternative farming practices will spread geographically over time through the active involvement of farmers/landowners and collaboration with groups such as the local Resource Conservation Districts (RCDs), UC Cooperative Extension (UCCE), local Pest Control Advisors (PCAs), and the Natural Resource Conservation Service (NRCS).

Farmer/landowner attitudes regarding wildlife- and water-friendly farm management practices can change if those farmers are engaged as partners and understand the economic and environmental benefits.

Adaptive Management

CAFF's proposed project fits into the pilot/demonstration category. Evidence cited above establishes that pesticide, fertilizer and sediment loading into waterways negatively affects estuarine and species health. CAFF's project takes proven research to the demonstration stage. It is a multi-faceted approach to habitat reinvigoration, designed to teach us more about what practices farmers and landowners — the major land stewards in California — actually use and on what basis they make their decisions. With this

information, we will be able to modify and/or enhance the information imparted to farmers about ecologically sound management practices as well as engage them as partners in the effort to restore the Delta's lands and waterways.

CAFF's collaborative, farmer-to-farmer participatory model clearly demonstrates the learning / modification loop underlying the adaptive management concept. For example, in a recent BIOS field day for almond growers, UC Davis research scientist Steve Weinbaum presented research on nutrition in nut crops and its relation to fertilizer applications. In an extensive discussion period, growers shared their in-field knowledge and experience with the scientists and agency personnel. This information exchange illustrates the learning loop between targeted research and pilot/demonstration projects. The exchange influences both the direction of research and management practices in the field.

Educational Objectives

Educational events are designed around the objectives stated above. The program corresponds most closely to two ERP goals:

- Improve and maintain water quality to eliminate, to the extent possible, toxic impacts on organisms in the system, including humans (Goal 6).
- Protect or restore functional habitat types throughout the watershed for public values such as recreation, scientific research and aesthetics (Goal 4).

Each field day, on-farm demonstration, discussion group or meeting will address these goals.

CAFF's education and outreach program will work directly with 8 to 10 growers in each designated region. CAFF employs a variety of proven educational methods to transfer resource management techniques. Our established network assures that many diverse people participate. Typically, we host on-farm events at which a combination of educational activities takes place: demonstrations, lectures, discussions, question and answer periods. Some events take place in the field; others in a setting comfortable to growers, such as a local coffee shop. Some events feature multimedia presentations, while others feature informal lectures. Supplementary and follow-up information is made available (e.g., informational handouts, Web Sites, telephone numbers of agency personnel, business links). After each event, an evaluation sheet is circulated for the purpose of getting feedback and recommendations regarding future topics.

Because CAFF disseminates information through the media, direct mail publications and public events, the educational benefits of CAFF's program reach far beyond the target group of growers. The growers, however, become spokespeople for biological farming practices and watershed restoration, most importantly among their grower-peers. They are pioneers and leaders in the effort to restore health to the Bay Delta ecosystem.

2. Proposed Scope of Work

A. Location

CAFF will work in Solano County and Merced County. In Solano we will work in partnership with the Ulatris Resource Conservation District (URCD) and the Solano County Water Agency (SCWA) located in the Yolo Basin (Zone 10). (see Attachment E for maps and geographic coordinates.) Solano County lies in the lower west side of the Sacramento Valley. Work will be conducted primarily in the Ulatris watershed and border of the Putah Creek watershed. The Putah Creek and Ulatris Watersheds (including Barker Slough) drain into the Yolo Bypass and then to the Sacramento River. Barker Slough is used for drinking water in the cities of Fairfield, Vacaville and Travis Air Force Base. CAFF and URCD will take focus particularly in the areas of Barker Slough, Pleasant Creek, Pleasant Valley Creek, Sweeny and Old Sweeny Creeks and Putah Creek.

In Merced County, CAFF will work in the Lower Merced River Watershed which is defined by miles 0 through 52 of the Merced River and Dry Creek, its only tributary. We will work with the Merced River Stakeholders group, Stillwater Sciences, and the East Merced RCD to work with farmers and landowners

in the Merced River watershed. These areas currently have a combination of uses — small farmers, grazing, row crops, orchards — and present a variety of water quality and habitat challenges.

B. Approach

Today these watersheds form regions that are impacted from development, land leveling, overgrazing, irrigated farming, and gravel mining. There is a growing movement sparked by the CALFED Program to coordinate environmental management practices that bring together the public and private sectors in a watershed improvement approach. The watershed approach is a strategy for effectively protecting and restoring aquatic ecosystems and protecting human health. This approach involves a high level of stakeholder involvement and finds integrated solutions that draw upon the expertise of many agencies. It also measures success through data collection and analysis.

In this watershed approach, CAFF will provide extensive outreach and education to farmers and landowners in the region, as described below. In Solano County, the Ulatis RCD and the Solano County Water Agency will identify two sites for demonstrations to complement the educational component. The demonstration sites will be used for clean-up, maintenance, revegetation, habitat restoration, water quality monitoring and evaluation. They will become models for the educational component of the program and will be used for hands-on demonstrations as well as illustrations for watershed management practices.

In the Barker Slough region, CAFF's role will be to highlight data and information gained from the work currently being conducted and to disseminate it regionwide. Practices that are found to be successful and/or cost-effective will be featured in educational settings for farmers and landowners. This will include information about practices that are eliciting better water quality as well as rehabilitation practices. In this way, local people will gain a better understanding of the relationship of their on-land practices and the quality of their watersheds.

CAFF and its partners propose the following tasks: (also see Attachments F and G)

Task 1. Data Collection

The initial phase of the project will be devoted to multi-faceted research and planning. Research will be conducted by CAFF, by collaborators and by hired consultants.

The research will discover or identify:

- Regional historical watershed information
- Patterns of agricultural input usage (pesticides, fertilizers) in the region
- Water use practices on farms and other land areas
- Specific water quality issues for each watershed in the region
- Agricultural geography and land use, including acres of grazing land, tree and row crops and other land uses
- Local agriculture, land use and water use stakeholders in the region, e.g., which commodity boards, which agencies, which local watershed groups
- Regional businesses related to sustainable ag practices, e.g., native plant nurseries
- Sources growers use for information
- Barriers or perceived barriers to implementing beneficial ecological practices
- Kinds of incentives to develop for participating farmers/landowners (e.g., monitoring services, cost-share programs, farm plans)

Ulatis RCD will conduct historical research about the ecosystem of the region. Historical information will be used in the educational events to give farmers and landowners a long-term perspective about the habitat where they work and live.

In Solano County, CAFF and URCD will conduct research into local ecosystem issues and farm and land management practices, including taking site photographs of the areas to be used as demonstration plots. The research will give us a snapshot of "the lay of the land," and farmers' management practices for

comparative purposes later in the project. The results will also allow local stakeholders to design and tailor educational events to meet the specific needs of micro ecosystems.

In Merced County, CAFF will use baseline data provided by Stillwater Sciences and EDAW, Stillwater's subcontractor. This data includes information on land uses, property ownership and water use in the Merced River corridor. In addition, CAFF will work with contracted survey consultants to determine what management practices are common throughout the watershed that may be impacting water quality of the river.

In both Solano and Merced counties, CAFF will be responsible for a survey of land and farm management practices as well as farmers' and landowners' attitudes on the technical, economic and social barriers (both perceived and real) to implementing best practices. This will allow us to determine how best to engage growers and landowners as partners in the effort to restore the whole ecosystem. With the information, CAFF will establish specific goals and objectives for each locale as well as indicators and end points for local projects. It is very important that this step be done in conjunction with local partners.

Project planning and local implementation will begin as soon as possible. We will meet with local farmers, landowners, and agency representatives to define the specific sites for work. We will convene a local management team, which will meet to determine work plans. We will begin developing work plans for the education and implementation phases.

Task 2. Planning and Project Management

CAFF will be responsible for overall project management and coordination. This will include bringing all the relevant stakeholders together, establishing meetings, and maintaining networks so that stakeholders remain informed and active in the process. CAFF will establish a project management team in collaboration with local partners. Local management teams will decide upon topics and issues for educational events, engage local or other expertise for the events, and arrange activities on local demonstration sites.

For Solano County, the Management Team will consist of Mark Cady, CAFF Deputy Program Director; Marcia Gibbs, Solano County RCD; Frank Morris, Solano County Water Agency (SCWA); a Yolo County RCD representative; growers/landowners (to be determined); a Natural Resources and Conservation Service (NRCS) representative; and a Solano County Farmland and Open Space representative.

The Merced County Management Team will consist of Gwen Huff, CAFF; John Kelsey, Rancher and East Merced Resource Conservation District; Cindy Lashbrook, Four Seasons Ag. Consulting, Malia Ortiz, USDA-NRCS Merced County District Conservationist; Christopher Robinson, Robinson Cattle Company, Merced River Stakeholders Group; and other farmers/landowners, consultants and agency representatives as deemed necessary as the project progresses.

Task 3. Technical Assistance

Staff and management teams in each project areas will recruit eight to ten landowners to serve as participants where best management practices and other appropriate ecosystem improvements can be made.

The management teams will work with these participants to develop individualized farm or land use plans. On a yearly basis, the management team will visit each of these sites to talk with landowners and determine if plan implementation is being carried out. The visit in year one will be used to gather information for the individualized farm plans. These plans will help the landowner/growers make beneficial management decisions in relation to water quality improvement and habitat reservation. The management team will be available to make site visits and provide consulting to the project participants.

Importantly, CAFF has a proven track record of farm technical assistance that reduces farm chemical input usage, thus reducing farm impacts on water quality and habitat. The grower outreach models pioneered and continually refined by CAFF use a peer learning model that, along with intensive grower outreach activities, reaches far beyond the project participants.

Task 4. Demonstration Activities (Solano County)

As a result of the data collection process in Task 1, we will identify two sites, one in a riparian area and one on working farmland to develop demonstration sites. We will record site conditions through extensive photographs in order to start the problem/opportunity evaluation process including:

- Data collection and analysis
- Definition of existing stream conditions and causes of disturbance
- Comparison of existing conditions to desired conditions (or reference conditions)
- Analysis of the causes of altered or impaired stream corridor conditions
- Determination of how management practices might affect stream corridor conditions, and
- Development of problem and opportunity statements.

The partner organizations will hold on-site workshops with local landowners and other interested people to show what the project will entail and how it will improve neighboring areas. Contractors, engineers or technical advisors will be sought to provide advice for the project. If necessary, we will engage the services of an engineer to specifically look at stream flow and downstream impacts.

We will utilize the California Conservation Corps to assist with clean up and maintenance tasks (i.e. brush clean up, weed control, dead tree removal, etc) to increase the viability of the watershed area. With the assistance of the Corps and local volunteers, native plants and grasses will be planted for habitat restoration. The process will continue with a public workshop to explain and demonstrate hands-on planting techniques. When site work is completed, we will again take photographs to show how the area has been changed to improve its ecological habitat capacity.

Each demonstration site will show areas where the growers/landowners implement practices presented in the educational events, including lower pesticide and herbicide use, cover cropping, rehabilitation and revegetation practices. The demonstration site work will culminate in an on-site field day, with the help of the Management Team, to show the completed project.

Task 5. Educational Events

CAFF's project will offer an intensive educational outreach program open to all members of the communities in which we are operating. Our project teams will work closely with 8 to 10 participating growers or landowners in each region who agree to implement and demonstrate a set of ecologically beneficial practices on their land.

Project management teams will develop six educational events per year in each of the two project areas. The teams will produce outreach information and presentations that address issues and ideas supporting creek and river restoration and watershed health. The topic areas for these events include the following:

- Each of the key management practices identified by the teams (e.g., pesticide and herbicide reduction, nitrogen budgeting, cover cropping, planting California native plants)
- Water quality issues and water use efficiency
- Watershed restoration issues (habitat restoration practices, ways to encourage wildlife)
- Natural history of the local ecosystem including at-risk and endangered species
- Agricultural tourism opportunities near restoration areas and on farms that practice wildlife-friendly farming practices,
- The use of market differentiation and special labeling for products produced on enrolled farms that practice wildlife friendly farming practices

Educational information will be presented in a variety of formats — workshops, on-farm field days, demonstration events, one-on-one technical assistance. Where necessary, CAFF will engage technical experts for disseminating information on issues such as nutrient management, creating buffer strips, sedimentation and erosion control.

In addition, we will hold two regional watershed fairs in each of the two project areas, bringing together landowners, agencies and others to discuss region-wide watershed issues. The purpose of these events will be to highlight progress and assess future challenges facing the regions in maintaining and restoring a healthy watershed, and to give participating organizations and businesses the opportunity to share their work with landowners, farmers and the general public.

Concurrently with educational events, CAFF's management teams will work with participating farmers/landowners to develop individualized farm plans or land use plans. These plans will help the farmer/landowner make ecologically beneficial management decisions about reduced risk practices and habitat restoration techniques.

Task 6. Publications and Outreach

CAFF is particularly strong in leading outreach activities. We bring growers and others together for field demonstrations, produce high quality publications that provide technical information, and mobilize local stakeholder groups around issues. This will form the basis of our outreach efforts. Concurrent with educational events, our Communications Department will produce fliers, meeting announcements, fact sheets, informational materials, resource lists, newsletters, and Web site postings around local watershed issues. These materials will engage diverse stakeholders and disseminate information to a wide audience. Outreach strategies will be based on the results of the initial survey about attitudes, values and concerns.

Media work will include generating press releases, articles, and editorial pieces about watershed activities and pitching these to media outlets, both local and statewide. Maintaining relationships with a variety of media outlets will be a crucial piece of this work. CAFF is uniquely equipped to do so with a sophisticated media database and extensive media contacts.

In addition, community relations will form a large portion of outreach. We are developing an informational display to take to county fairs, farmers' markets and agriculture shows. The display unit will provide information about CAFF's work in relation to biological farming and watershed restoration. We will develop promotional materials that include current information about what is happening locally in relation to habitat restoration.

CAFF will design and produce informational signs for identification of participants and demonstration sites involved in the habitat and watershed restoration project. These will be posted at participating project sites in both counties.

Continuing extensive community relations and outreach will be crucial. CAFF will develop a speakers' bureau of local farmers and landowners. We will arrange for these speakers to talk at community organizations such as Lions Clubs, Chambers of Commerce and Soroptimists to inform communities about habitat restoration activities taking place in their local regions. The best people to discuss these issues are the farmers and landowners themselves.

In year three, CAFF's Communications and Program departments will collaborate on developing local Farm Plan/Land Use Plan Workbooks. These workbooks will bring together all the elements gathered during the research and the education phases and will serve as a practical and accessible outreach tool to landowners. The books will feature straightforward information on implementing watershed restoration and biological management practices that is suited to local conditions. They will focus on land use and farm plans in order to help both farmers and landowners.

Task 7. Evaluation and Assessment

CAFF has proven expertise in accounting for progress toward goals. The organization is equipped to report on progress for both internal adaptive management and reporting to stakeholders, partners and state and federal agencies. Evaluation plans are described in detail below, as "C. Monitoring and Assessment Plans."

Task 8. Reporting

For this task CAFF will prepare quarterly narrative and budget reports. A final report at the close of the project will recap the highlights, describe appropriate best management practices, discuss the sociological and economic changes, shifting opinions, and identify the level of adoption of ecologically beneficial management.

C. Monitoring and Assessment Plans

CAFF will be responsible for project evaluation, and will use surveys to measure impacts in the two project areas. CAFF will subcontract to a survey consultant who will conduct pre- and post-project surveys to assess two dimensions: ecosystem management practices, and landowners' perceptions and attitudes about implementing new management practices. One survey tool will measure progress toward ecosystem goals and objectives. A baseline survey will establish the extent to which growers employ the practices. The post-project survey will help us assess changes farmers make in relation to each of the specific management practices/ecosystem objectives identified in Work Plan Goals 2, 3 and 4 (see page 3) above. The survey will be area-wide and will quantitatively assess a range of specific practices and the degree of current implementation.

The survey will be applied again at the end of the project to assess both the extent to which those practices have increased over time, and to make comparisons between participants and non-participants in the project.

The second area of evaluation will be a survey of farmers' knowledge, perceptions and attitudes regarding wildlife- and water-friendly management practices. This survey will assess factors that influence a grower's management style and decision-making process. Factors can be external (e.g., media/print information sources, informational contacts, technologies available, crop type, acreage) or more subjective (e.g., personal values related to family and economic viability, personal values related to ideal farming practices, the perceived barriers to adoption of sustainable agriculture techniques). Again, pre-and post-project surveys will be administered in order to make comparisons.

The results of these surveys will be ecological as well as attitudinal indicators. They can assess the relationship between the ecological problems and farmers' management practices. They can also be used to assess factors that inhibit implementation of new management practices. CAFF will make results available to CALFED and other appropriate parties through both narrative reports and data compilation.

The riparian and working farmland restoration projects in Solano County will use evaluation tools unique to each project, including:

- Photographs
- Percentage of vegetative cover or riparian vegetation
- Pesticide and herbicide use
- Trash loading
- Nitrogen levels

After determining the best combination of these and other evaluation tools, we will develop a monitoring and sampling plan with specific data management specifications unique to each site. The Ulatris RCD will manage the evaluation process for the demonstration sites.

D. Data Handling and Storage

Data will be collected through means appropriate to its use. For example, documentation of restoration sites will be conducted and organized by the Ulatis RCD. Surveys of participating growers, and the many more attending educational field days, will be organized by CAFF, using its proven methods for tracking feedback and determining program improvement.

The survey information collected will be managed in a Filemaker Pro 3.0 database that is used to manage other surveys and in-house mailing lists of nearly 20,000 growers and others interested in California agriculture. CAFF has managed survey data of this nature for years as part of its Biologically Integrated Orchard Systems (BIOS) project and statewide Lighthouse Farm Network.

E. Expected Products/Outcomes

CAFF's work with its local partner organizations will raise the profile and awareness of crucial water quality and habitat restoration challenges. The proposed work, combining intensive outreach to growers along with broader communications initiatives will encourage farmers and ranchers to learn innovative farm management practices, talk with neighbors and peers about their effectiveness, demonstrate the practices for others, and encourage adoption of biologically based farming systems. Farmers recognize the value of innovation, but need a framework for learning more about it and for establishing new management practices as part of the farm landscape in their watershed. Most importantly, the proposed work makes excellent stewardship a highly promoted and accessible model in areas where critical water quality and habitat restoration challenges exist.

At the end of the project, CAFF will produce a workbook for farmers and landowners. It will serve as a hands-on reference tool for landowners who want specific technical information about practices they can implement on their land to improve water quality, enhance wildlife, and restore vegetation and wildlife habitat.

CAFF will also develop a "Speakers' Bureau" of participating farmers and landowners who will address community and civic organizations such as the Lion's Club, Rotary, League of Women Voters, and Chambers of Commerce.

Final reports of the surveys will be compiled and made available to local agencies and other stakeholders as soon as possible. They will work to inform both CAFF's future strategies as well as build the research and background necessary for other organizations to continue to adopt the learning partnership model of working with farmers and ranchers in sensitive environmental conditions throughout the Central Valley and in other parts of California.

F. Work Schedule

See Attachments F and G for a detailed task list and projected timeline for the entire project.

The data collection phase is scheduled for the first six months of the project, from March 2001 through August 2001. Outreach, communication and community relations will run for the duration of the project. Educational events will begin immediately after the six-month research phase and will continue until the final quarter of the project. Assessment and evaluation will run for the final six months.

Habitat development demonstration work in Solano County will run concurrently with the educational events. From approximately August 2001 to March 2002, maintenance and clean up activities will take place followed by reconstruction, revegetation, and restoration.

G. Feasibility

The program model proposed herein is a refinement of the best elements used over the past six years in CAFF's biological farming outreach and demonstration work through the BIOS program. The strategies previously used have demonstrated that working with local Management Teams, partnering with growers, and holding demonstration-based field days reaches growers and raises awareness of how farming practices affect water quality and habitat.

An April 2000 report by the California Institute of Rural Studies demonstrates that CAFF's biological farming outreach programs have changed grower practices. Over a three-year period, there is a clearly demonstrated reduction in the use of pesticides and fertilizers affecting water quality. These practices are adopted by other growers on a consistent basis as a result of focused outreach and education through field days and dissemination of written materials such as fact sheets and user friendly synopses of recent research. Farmers are inherently curious, and innovative management practices that may help to increase the bottom line do get attention. Growers have been quoted as saying, "I would say there's probably as much impact on non-enrolled [BIOS] growers as there is on enrolled growers. It's getting people to evaluate a different farming paradigm...It's not only because of BIOS, but BIOS is fanning the flame." (Pence, 1998)

The peer-based learning model created by CAFF, coupled with extensive communications outreach, has changed the way that agricultural industries such as almonds and walnuts view the stewardship challenges facing growers. The Pest Management Alliances created in cooperation with the Department of Pesticide Regulation attest to this trend. This proposal suggests a similar strategic focus in designated watershed zones.

The proposed work plan will not be substantially affected by weather or other restoration and demonstration activities in the two regions. Restoration practices proposed in this work are common techniques, but will be coupled with intensive communications outreach to raise the profile of the work – both among local growers and the public. The Ulatis Resource Conservation District works closely with other agencies in Solano County and does not anticipate any overlapping work plans.

D. Applicability to CALFED ERP Goals

The overall goal of CAFF's project is to "improve and maintain water quality by eliminating, to the extent possible, toxic inputs into the waterways." (Goal 6) This involves reducing pesticide, fertilizer (nitrogen) and sediment loads into the waterways. The project also is designed to "protect or restore functional habitat types throughout the watershed." (Goal 4) Work towards these goals also addresses Goal 1, which is to "achieve recovery of at-risk species." We will concurrently reduce toxic inputs into the environment and rebuild habitat. We will accomplish this by educating farmers and landowners about land management and land use practices that improve water quality and riparian habitats. In addition, we will establish demonstration sites where these practices are tested and modeled.

CAFF will reduce toxic inputs by establishing a program based on its successful BIOS model. A local management team will identify the salient problems, enlist the participation of local farmers and landowners, create individualized land-use plans, and offer technical information and support for them to reduce off-site ecological impacts. Simultaneously, we will teach and demonstrate ways to replace toxic inputs with ecologically beneficial alternatives (native grasses, shrubs, cover crops, tailwater ponds). We will address the costs and demands of agricultural production as compared to the implementation and management of ecosystem restoration activities. We will demonstrate that ecologically beneficial management practices create stable and self-sustaining environments that are cost-effective and beneficial to humans as well as to endangered species.

In the Yolo Basin (Solano County), stream flow, stream erosion and natural sediment supply are crucial issues. In collaboration with the Ulatis RCD, CAFF plans to work in the Sweeney Creek, Old Sweeney Creek region doing streambed restoration work and using the work as a model and demonstration site for educational purposes. Stream flow and connectivity to the Yolo Bypass and greater Yolo Basin is impacted in this region. Vernal pools are also a concern in certain areas of the Ulatis region. Agricultural practices such as disking and cultivation as well as overgrazing have degraded them, and this is another area where education and technical support can have beneficial effects.

In the Barker Slough area, CAFF's role will be primarily educational, since this area is already being closely monitored through a CALFED grant. The crucial issue in this zone is the extremely poor water quality. The Solano County Water Agency and Ulatis RCD, in partnership with CAFF, will do community education and outreach in order to make farmers, landowners and the general public aware

of the severity of the issues and encourage implementation of best management practices determined by the project.

The Merced River has challenges similar to those of the Yolo Basin, including altered stream flows, bank erosion and loss of natural sediment supply. In addition degradation has altered the food web that supports fish populations such as chinook salmon, splittail and possibly steelhead. Off-site impacts of irrigated agriculture in the Merced River Watershed may continue to harm the production of these species due to contaminated runoff containing nutrients and agricultural chemicals and clearing of streamside vegetation. CAFF's efforts to implement and promote ecologically beneficial land use and agricultural practices will improve the water quality of the watershed and promote repopulation of the Merced River by endangered species.

CAFF is currently receiving CALFED funding for project #97-N20, titled "Reduction of Synthetic Pesticides and Fertilizers in Five California Counties — The BIOS Strategy." The primary goal is to significantly reduce the use of pesticides and fertilizers that degrade water quality. Specific pesticides targeted for reduction are in the class of organophosphates, for example, diazinon, methidathion and chlorpyrifos. An additional goal is to reduce use of synthetic nitrogen. The project works directly with walnut and almond farmers who voluntarily enroll in the Biologically Integrated Orchard Systems (BIOS) program in order to institute a series of practices that benefit the ecosystem.

CAFF's program is successful. At the heart of the project are the Lighthouse Farm Network (LFN meetings) and BIOS events and field days. CAFF sponsors approximately 130 meetings, educational events, field days and demonstrations per year. These events in combination with our direct work with growers have resulted in significant changes in farm management practices. The following are a few results cited in follow-up studies:

- Overall from 1995 – 1997, the BIOS growers (Merced and Madera counties) achieved a 58.2 percent reduction in organophosphate use relative to the non-BIOS growers.
- During the same period, BIOS growers reduced their use of diazinon by 91.3 percent.
- In the class of pyrethroids, net reduction in loading on the part of BIOS growers was 80 percent.
- The insecticide Bt (*Bacillus thuringiensis*) is unique in that its action is biological rather than chemical and has little off-site ecological impacts. BIOS growers used 27 times more Bt than non-BIOS growers. (California Institute for Rural Studies Report, April 2000)

Another study showed that "uniformly, BIOS orchards report a significantly lower proportion of fields treated with registered pesticides as compared with a matched group of cohort orchard fields...In the case of almonds, this share is now less than one-half; in walnuts about one-fourth." (Villarejo and Moore, 1998)

With the current proposal, CAFF will expand this success to a watershed focus. We will target not only farmers but also landowners whose land impacts the watershed. We will address similar issues of pesticide and fertilizer use, and add on several watershed components, such as revegetation with California native species, techniques for creating tailwater ponds and ways to enhance habitat requirements for endangered species. In some areas we will partner with groups who have ongoing projects, emphasizing use of the education and outreach components of our program.

E. Qualifications

Jim Tischer, Executive Director, Community Alliance with Family Farmers

Jim Tischer's diverse background includes work in agricultural water use efficiency, biomass power production and management of drainage problems in the San Joaquin Valley. He has served as Executive Director of the Westside Resource Conservation District in central California and also managed a diversified irrigation company. His past and present volunteer board service includes Habitat for Humanity, Yolo County Arts Council and Katalysis Foundation. Mr. Tischer began his work at CAFF in September 1999 and is focusing on program visioning, strategic planning, and building collaboration opportunities.

Reggie Knox, Director of Programs, Community Alliance with Family Farmers

Reggie Knox has worked on sustainable agriculture and land management for 18 years. He came to CAFF in 1994 to coordinate outreach for the Biologically Integrated Orchard Systems program and has coordinated the statewide Lighthouse Farm Network program since 1996. Mr. Knox is County Supervisor Jan Beautz' appointee to the Santa Cruz County Resource Conservation District Board of Directors. He worked for eight years with the California Certified Organic Farmers developing national organic standards and inspecting farms throughout the Central Coast and the Central Valley. Mr. Knox was a Rotary Foundation Graduate Research Scholar in sustainable agricultural development and restoration ecology in Sri Lanka and India and has consulted in sustainable agriculture and community development in Africa and the California Central Coast.

Mark Cady, Deputy Director of Programs, Community Alliance with Family Farmers

Mark Cady has worked on the BIOS program since 1995. He has coordinated field projects and is currently in charge of the continuation of local projects after their initial funding is completed. Mr. Cady had his began his formal studies in agriculture at UC Santa Cruz. He experienced the lives of subsistence farmers in the African Sahel during a two year stint with the Peace Corps. Prior to joining the BIOS team at CAFF, Mr. Cady worked for four years at UC Davis, conducting applied agronomic and ecological research. He has a B.A. in Biology from UC Santa Cruz, and an M.S. in International Agricultural Development from UC Davis.

Mr. Cady will oversee the farmer survey evaluation process.

Marcia Gibbs, Manager, Ulatris Resource Conservation District (URCD)

Marcia Gibbs is an experienced project manager with a background in agriculture. She has worked as a planning specialist since 1992, in the Bay Area and in the Central Valley. Ms. Gibbs worked as the BIOS Program Coordinator for CAFF for three years before moving to the Ulatris RCD. At CAFF, she coordinated all aspects of the BIOS program, including budgeting, staff supervision, strategic and program planning, project coordination of local field days and workshops. She also undertook an extensive grower survey process to document management practices of BIOS growers. Ms Gibbs brings extensive experience to this project. At URCD she works with farmers and local landowners, providing information on water issues, habitat enhancement and erosion and sediment control.

Ms. Gibbs will oversee the Solano County demonstration site analysis and evaluation.

Frank Morris, Water Resource Specialist, Solano County Water Agency

Frank Morris is an environmental scientist specializing in environmental quality investigations and program management. He has over twenty-five years of experience in designing, conducting, and managing environmental programs for both the private and public sectors. In his current position, he is responsible for watershed management programs, water distribution systems, conducting field inspections, limnological and stream corridor investigations, data evaluation, and consulting contract management.

Judith Sams, Director, Communications

Judy Sams has been involved in communications and publishing for the past 18 years. She has overseen the production of the 1998, 1999 and 2000 *National Organic Directory*, a 400-page comprehensive farmer and wholesaler resource catalog with an annual budget of over \$150,000. She also developed and implemented marketing plans for the 1997, 1998 and 1999 directories. Additionally, Judy assists in editing, proofing and writing for CAFF's various publications. Ms. Sams has a B.A. in English from the Pennsylvania State University.

F. Cost

Budgeted costs for the proposed project total \$1,066,593. Please see Attachment N for complete budget details, including budgeting by task and subtask.

G. Local Involvement

CAFF has garnered interest and support for this project from many local organizations and stakeholders. In Solano and Yolo counties these include the following:

Ulatis Resource Conservation District
Solano County Water Agency (SCWA)
Solano County Farmlands and Open Space
Joe Martinez, Solano County grower and President of Solano County Water Advisory Committee
Terry Riddle of Solano County Wildlife Committee
Yolo Land Trust
Audubon Society of Yolo County
John Anderson of Hedgerow Farms, Yolo County
Craig McNamara of Sierra Orchards, Yolo County
Dixon RCD
Solano and Yolo Natural Resources Conservation Service (NRCS)

In the Merced region the following groups and individuals have expressed support:

East Merced Resource Conservation District
Merced Natural Resources Conservation Service
Merced Irrigation District
Stillwater Sciences
Christopher Robinson, Robinson Cattle
Cindy Lashbrook, Four Seasons Ag. Consulting
John Kelsey, J & D Kelsey Ranch
Glenn Anderson, Anderson Almonds

CAFF has a reputation for building bridges among many stakeholders. All communications with the listed cooperators have been positive and have indicated support. We look forward to the opportunity to continue biological farming outreach for water quality and habitat improvement with these important local stakeholders.

H. Compliance with Standard Terms and Conditions

The applicant will comply with these terms and conditions.

I. Literature Cited

Please see Attachment I.

J. Threshold Requirements

Please see Attachment M.

Attachments

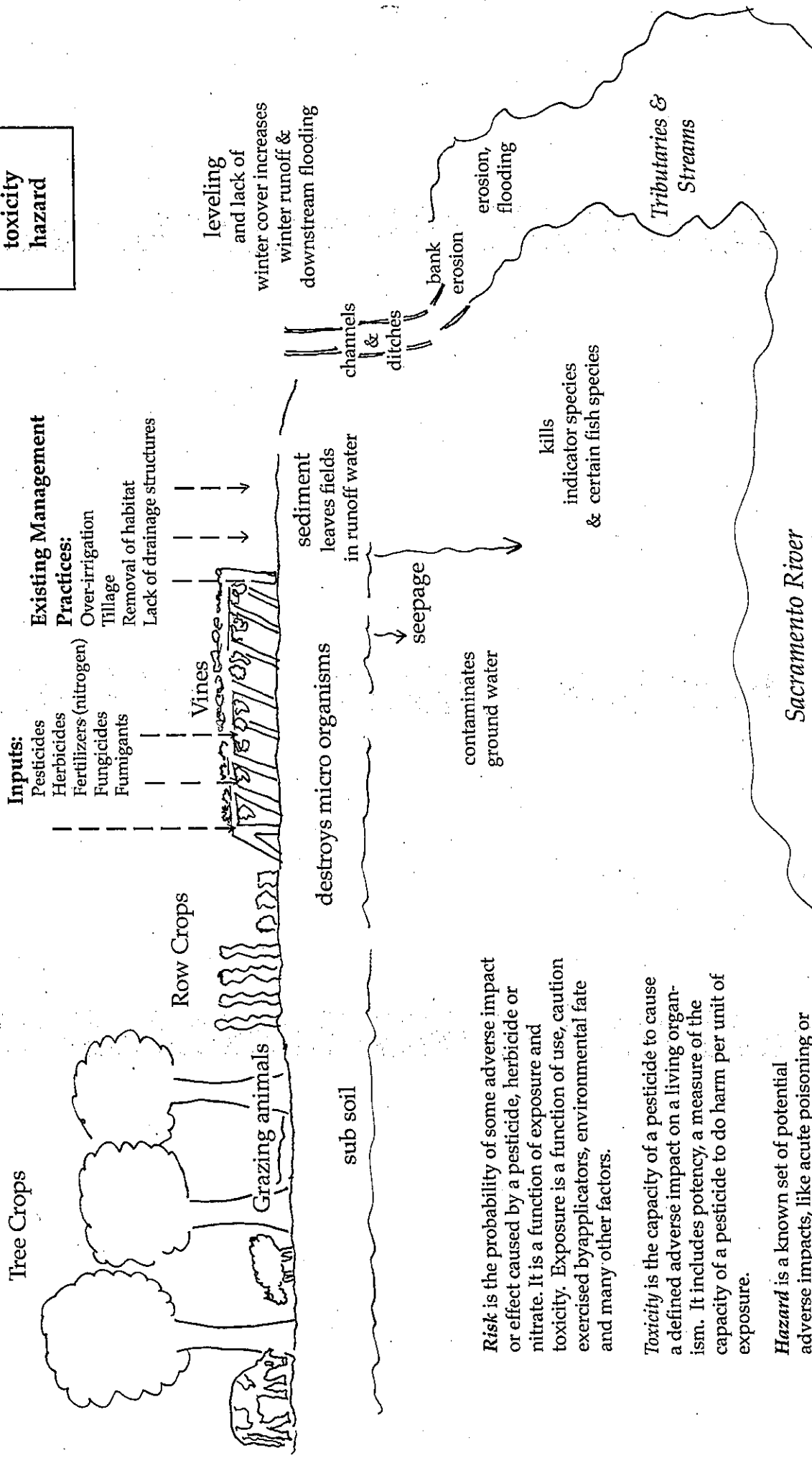
- A. Table 1: Relationship of Agricultural Inputs to Water Quality
- B. Table 2: Conceptual Model of Conventional Agricultural Management Practices
- C. Table 3: Conceptual Model of "Top-Down" vs. Innovative Technology Transfer
- D. Table 4: Key Elements of Participatory Learning Model
- E. Maps and Latitude/Longitude Coordinates
- F. Detailed Task List
- G. Timeline for Tasks
- H. Current CalFed Project Status
- I. Literature Citations
- J. Technical Advisory Committee Members
- K. Letter of Disclosure of Potential Conflict of Interest
- L. Letters of Support for the Proposed Project
- M. Threshold Requirements
 - M.1 Copies of Letters Sent to Local Planning Commissions
 - M.2 Environmental Compliance Checklist
 - M.3 Land Use Checklist
 - M.4 State and Federal Contract Forms
- N. Complete Project Budget

Table 1

Relationship of Agricultural Inputs to Water Quality
<ul style="list-style-type: none"> About 85 percent of California's developed water is used for irrigated agriculture.
<ul style="list-style-type: none"> The predominant source of pesticides in streams and rivers is generally believed to originate from surface runoff, as opposed to aerial deposition or subsurface flow. (Leonard, 1990; Spencer et al. 1985; Majewski and Capel, 1995; Squillace and Thurman, 1992)
<ul style="list-style-type: none"> Studies of pesticide loading in the San Joaquin Valley indicate the presence of OPs in the San Joaquin River as a result of routine winter dormant sprays to control overwintering populations of Peach Twig Borer (PTB). In one study in the Turlock area, investigators found "consistently poor water quality" as a result of pesticide use. (Ross et.al., 1997)
<ul style="list-style-type: none"> "During the winter of 1991-92, water samples collected in the San Joaquin River watershed were again found toxic to <i>C. dubia</i> and chlorpyrifos and diazinon were implicated as a potential cause of toxicity." (Foe and Shepline, 1993; in Ross, 1997)
<ul style="list-style-type: none"> "Organophosphate (OP) insecticides have been routinely detected in winter water quality monitoring projects coincident with storm events which follow the application of these OPs to dormant orchards in the Sacramento and San Joaquin River watersheds." (University of California fact sheet, October 1997)
<ul style="list-style-type: none"> Summary by county of groundwater wells tested for presence of verified pesticide residues show high counts for San Joaquin, Stanislaus and Tulare counties. (Fresno is the highest.) (CalEPA DPR 1997)
<ul style="list-style-type: none"> "The little that is known about the direct and indirect effects of toxic pollutants on the biota of the estuary, including the eight species in this recovery plan, indicates that the problem is of major proportions... The waters of the Sacramento-San Joaquin River estuary receive significant inputs of toxic pollutants annually and the amounts and types are changing constantly. (U.S. Fish and Wildlife Service, 1995)
<ul style="list-style-type: none"> "From a national perspective, agricultural pesticide use provides the greatest potential for contamination of surface waters...Herbicide use has increased substantially since the 1960s and now accounts for approximately 75 percent of the total agricultural use of pesticides." (Larson et.al. 1997)
<ul style="list-style-type: none"> In California's Central Valley, growers apply a variety of substances to their crops that leach into the water systems. For example, many nut growers apply dormant spray pesticides during the winter months in order to control pests. These pesticides, typically organophosphates (OPs) such as diazinon, methidathion and chlorpyrifos, end up in rivers and waterways. (Ross, et.al., 1997)

Conventional Agriculture Management Practices and their effects on the ecosystem

Increased risk toxicity hazard



Risk is the probability of some adverse impact or effect caused by a pesticide, herbicide or nitrate. It is a function of exposure and toxicity. Exposure is a function of use, caution exercised by applicators, environmental fate and many other factors.

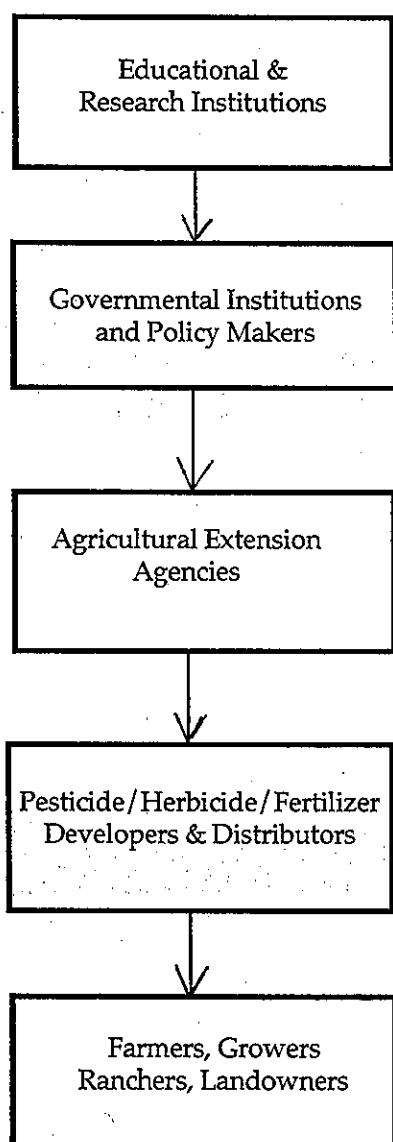
Toxicity is the capacity of a pesticide to cause a defined adverse impact on a living organism. It includes potency, a measure of the capacity of a pesticide to do harm per unit of exposure.

Hazard is a known set of potential adverse impacts, like acute poisoning or cancer. Potential hazard is comparable to the notion of risk as we use the term, and is also a function of exposure and toxicity. (Benbrook, 1996)

Table 3

INSTITUTIONAL RELATIONS FOR AGRICULTURAL TECHNOLOGY DEVELOPMENT: CONVENTIONAL VS. INNOVATIVE/ALTERNATIVE MODES

Conventional "Top-Down" Transfer-of-Technology Model



Innovative Linkages and Relations for Technology Development

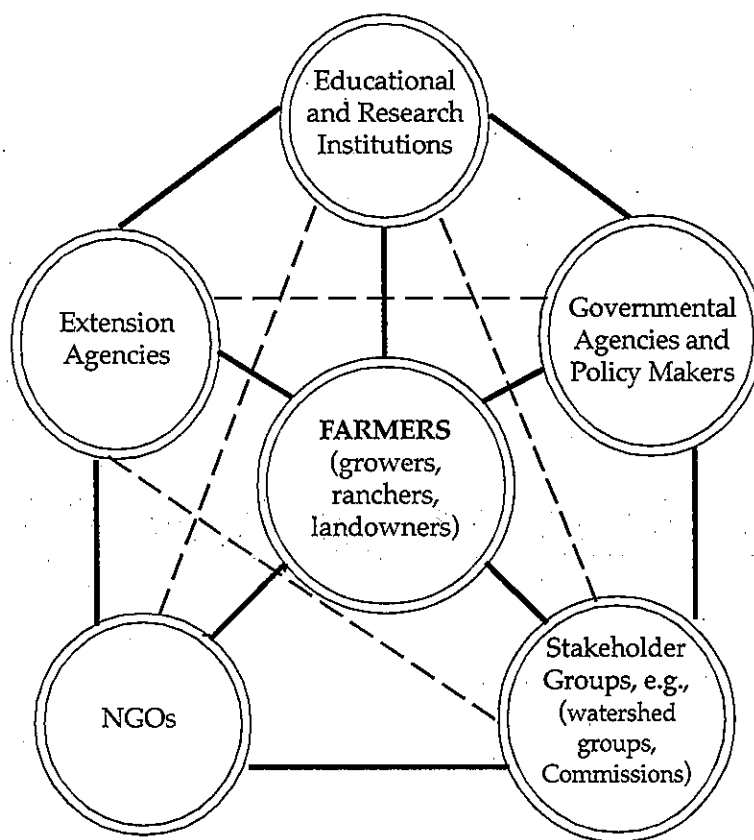


Table 4

Key Elements of a People Centered, Participatory Learning Model

People centered	Community based	Institutionally supported
<ul style="list-style-type: none"> • People-centered (peer) process of learning and two-way information flow/communication • Local venues for information transfer (in the field, home, café) • Farmers sharing information with each other and with researchers • Participation and empowerment of farmers and communities • Responsiveness to farmer needs and mutual respect between groups 	<ul style="list-style-type: none"> • Community organization as a basis for implementation • Management teams comprised of local farmers and stakeholders • Collaborative approaches and mechanisms for team work • Sensitivity to local economic and risks management needs • Willingness to explore marketing alternatives that benefit the community as a whole 	<ul style="list-style-type: none"> • Partnering among institutions, non-governmental organizations (NGOs), local resource conservation groups, university extension services, researchers, government agencies • Effective coordination and linkage mechanisms • Creative management of tensions; dynamic evolution of relationships • Political and economic support system for alternative practices • Efforts to promote policies that support sustainable agriculture practices

From: Thrupp, WRI: *New Partnerships for Sustainable Agriculture*, 1998

Attachment E: Maps and Coordinates

Following are maps of the proposed project areas in Merced, Solano, and Yolo counties. Each element of the project will cover substantial portions of the watersheds described in the proposal.

Coordinates were developed as a centroid of general work areas as follows:

Merced County

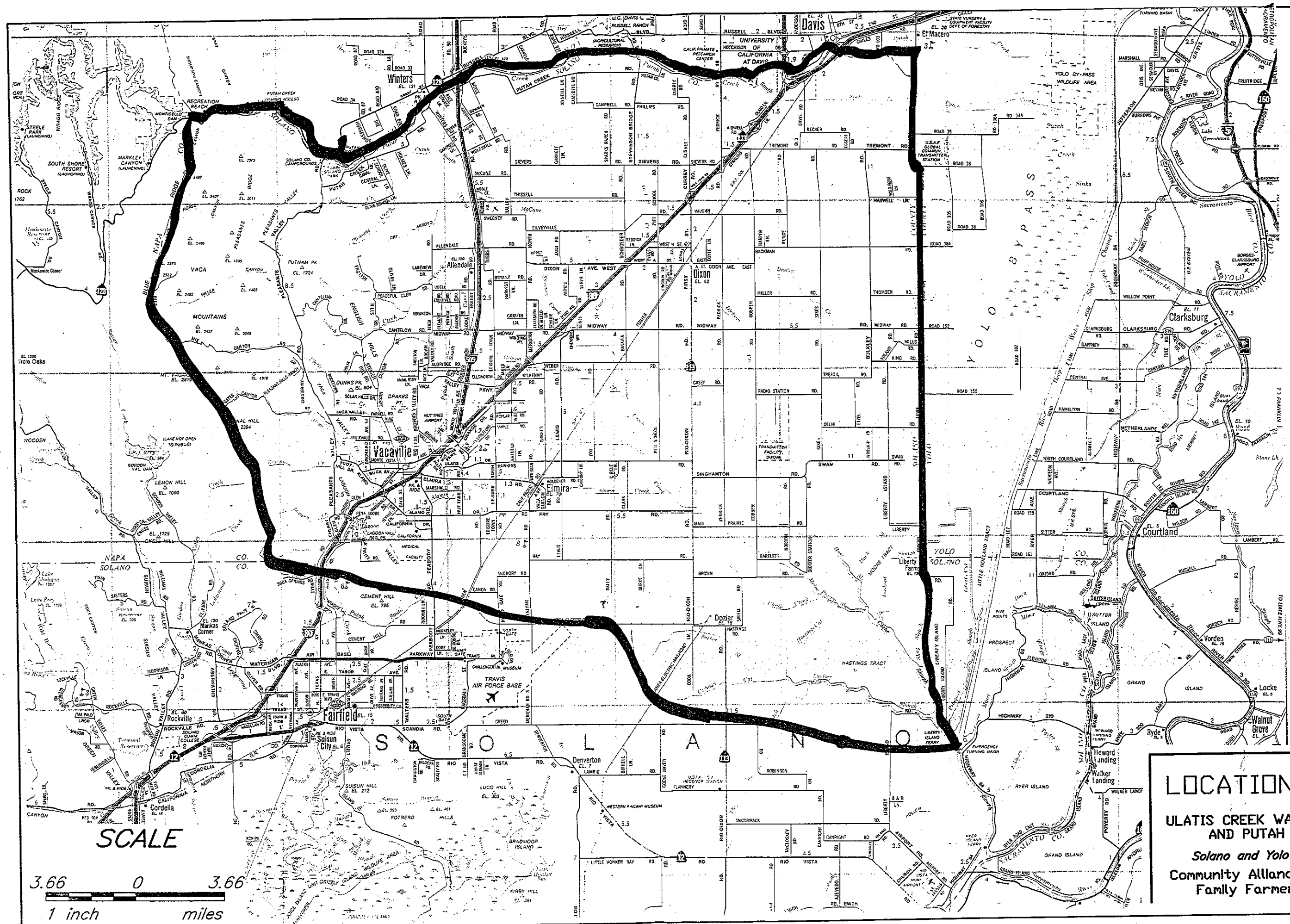
120° 40' West Longitude

37° 25' 30" North Latitude

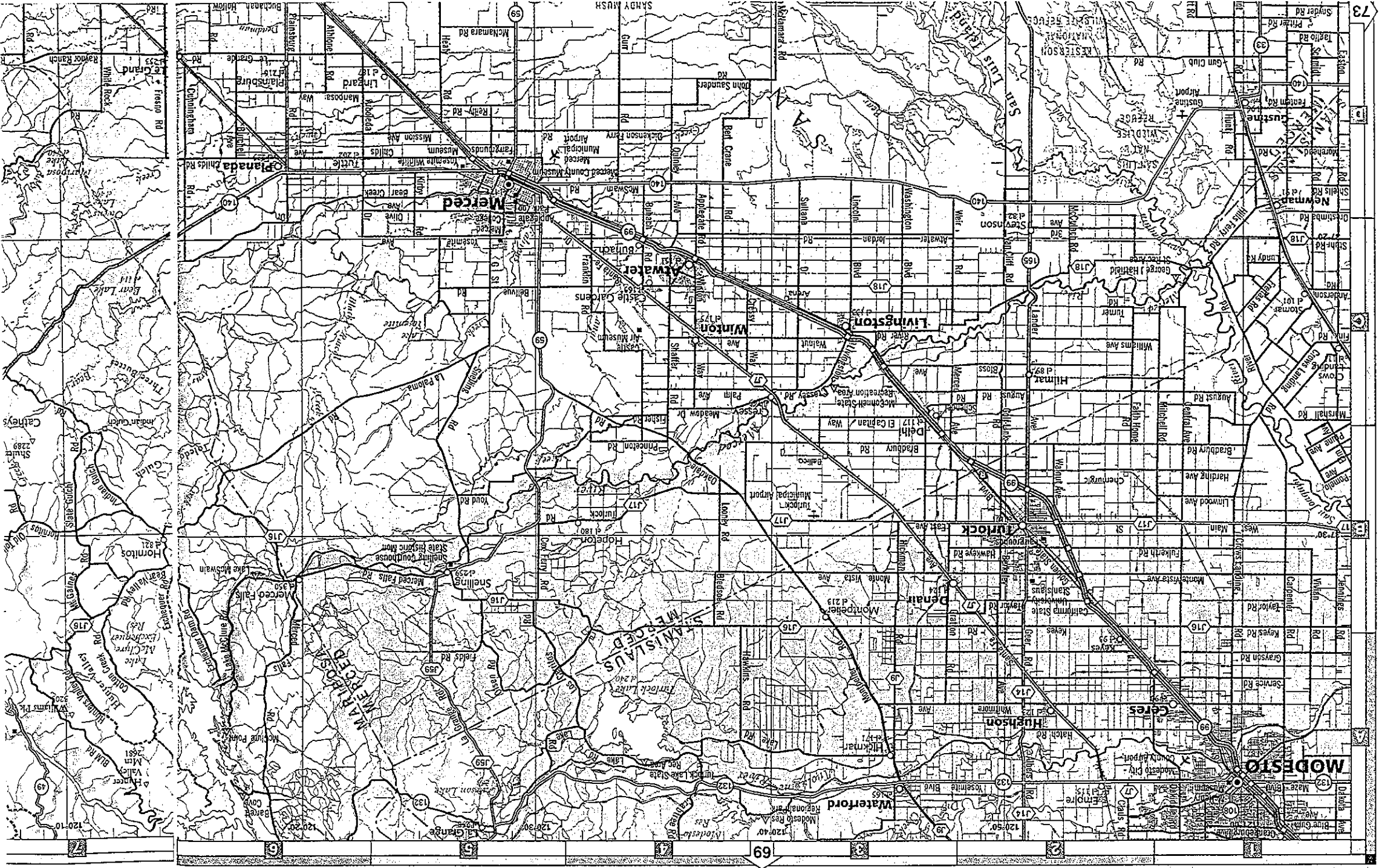
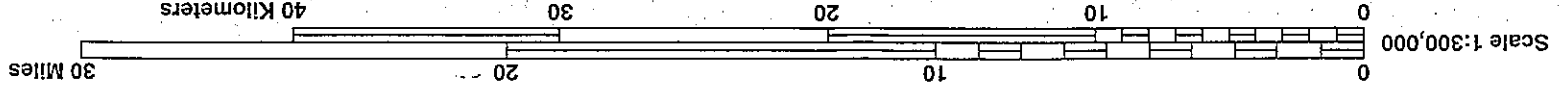
Solano and Yolo Counties

121° 55' West Longitude

38° 27' North Latitude



LOCATION MAP
ULATIS CREEK WATERSHED
AND PUTAH CREEK
Solano and Yolo Counties
Community Alliance with
Family Farmers



**CAFF: Educating Farmers and Landowners in
Biological Resource Management Task List**

Task 1: Data Collection

Subtask 1.1 Conduct baseline information and practices survey

CAFF will be responsible for surveying farmers and landowners about current farming practices to assure a solid evaluation process.

Subtask 1.2 Conduct survey of barriers to implementation

CAFF will survey farmers and landowners about the technical, economic, and social barriers to implementing biological farming and riparian habitat restoration practices.

Task 2: Planning and Project Management

Subtask 2.1 Establish Management Teams

A proven method for organizing stakeholders is to establish a peer-based Management Team who work with growers and landowners to share new management ideas. The teams will be established in two regions and will include staff and consultants along with personnel from agencies such as the Natural Resources Conservation Service, Resource Conservation Districts, water agencies, and representatives from agencies like the California Department of Fish and Game and the Department of Water Resources.

Subtask 2.2 Hold quarterly management team meetings

The Management Teams will be paid a modest stipend, where appropriate, to participate at educational events and meet quarterly with staff and consultants to discuss work plans, progress toward goals, and outreach opportunities.

Subtask 2.3 Develop work plans

The Management Teams, along with staff, will collaboratively develop work plans based on local conditions, opportunities, challenges, and any changes that affect the adaptive management model.

Task 3: Technical Assistance

Subtask 3.1 Recruit landowners

Staff and Management Team members will recruit 8 to 10 landowners in each region to serve as participants where best management practices and habitat restoration activities can be developed.

Subtask 3.2 Develop farm plans for each of the two project areas

Each participating landowner will develop a farm plan in conjunction with staff and appropriate Management Team members. The plans will provide a roadmap for water quality improvements and habitat restoration, addressing the uniqueness and challenges of each property. The plans will provide a framework for applicability of recommended practices for other landowners in the vicinity.

Subtask 3.3 Farm site visits

On a yearly basis the Management Teams will visit each of the sites to talk with landowners and explore how well the farm plans are being implemented and what kinds of challenges and opportunities exist. The first year's visit will be used to gather information as the basis for the farm plans.

Task 4 Demonstration Activities (Solano County)

Subtask 4.1 Create plan for riparian and farmland clean-up and restoration

In Solano County we will identify two sites for rehabilitation, one in a riparian area and another on working farmland. We will determine water testing needs, identify appropriate contractors or engineers, and arrange for labor needs.

Subtask 4.2 Hold stakeholder meetings

These are crucial opportunities to hold an on-site workshop with all interested parties to explain what the projects will entail and how it will affect neighboring areas.

Subtask 4.3 Site preparation and restoration

In conjunction with the California Conservation Corps, we will clear debris and invasive vegetation, and excavate and clean the water channel if necessary.

Subtask 4.4 Site rejuvenation

We will prepare the site for planting, eliminate weeds, and plant various native species to provide beneficial insect habitat and enhance the area.

Task 5 Education Events

Subtask 5.1 Hold 6 events in Solano County and

Subtask 5.2 Hold 6 events in Merced County

These educational events will involve proven activities including on-farm field days and indoor workshops. Four Watershed Fairs, two for each region, will bring together stakeholders in the watershed to share information on the state of the watershed and promote new opportunities to improve watershed health.

Task 6 Publications and Outreach

Subtask 6.1 Media campaign and public relations

A media campaign to inform and educate the public about habitat and watershed activities will include press releases (12/year), articles and editorials (4-8/year). Developing and maintaining relationships with media contacts, and event advertising and Web postings (monthly) will also be part of this task. These efforts will be based on the information obtained by the initial survey.

Subtask 6.2 Outreach for events

Outreach efforts will include the production of fliers (for 12 educational events and 2 Watershed Fairs), announcements (for 12 events and 2 fairs), fact sheets (4 in year one, 2 in year two, 2 in year three), and resource lists (2 in year one, 2 in year two) for events focusing on watershed management issues. We will also develop a newsletter (2 issues/year), a section on the CAFF Web site and a tabletop display for showcasing successful habitat and watershed restoration at fairs, events and agricultural trade shows.

Subtask 6.3 Community relations activities

By basing our media efforts on the results of the initial survey, we will be able to address local concerns about habitat restoration through an information booth at county fairs, farmers' markets and local agricultural events and shows. We will develop a speakers' bureau of local farmers and

landowners to inform the public about habitat and watershed activities occurring in their communities.

Subtask 6.4 Publications and media materials

Based on the results of the initial baseline survey, activities to be performed include execution of an ongoing, targeted media campaign about habitat and watershed activities. We will develop systems and procedures for creating and delivering messages to targeted audiences, measuring their impact, and evaluating the process.

Subtask 6.5 Workbook

In cooperation with the Management Teams, we will develop a watershed and habitat restoration workbooks in the third year. This workbook will provide information on restoration and biological management suited to local conditions.

The Management Teams will be responsible for gathering the data and information and formulating a draft for the workbook to be completed by staff. CAFF will be responsible for design and production work on the book as well as editing, printing and distribution. This will provide an invaluable "how-to" tool for farmers and landowners.

Task 7: Evaluation Activities

Subtask 7.1 Data entry

At the start of the project, photos and a vegetation and animal/species inventory will be taken in Solano County. This will again be conducted three to six months after project completion for data on changes to the area. Survey data will be entered into CAFF's established database system to provide a baseline for later assessment.

Subtask 7.2 Database management

Ongoing database management is a priority to assure up-to-date evaluation, consistency of data formats, and current lists of both participating and potentially impacted farmers. Database supervision and development is an important part of the database infrastructure that CAFF has built and will continue to improve in ways that adapt to new projects.

Subtask 7.3 Evaluation of program events

CAFF's extensive experience in managing program events targeted for farmers has built a strong evaluation framework. Staff will use event evaluation forms, tracking of the numbers and types of participants, and Management Team surveys to evaluate the effectiveness of program events. The questions will help determine if the event format was appropriate for the topic, what topics interested participants most and why, what new ideas emerged, and what evidence exists showing that practices are being used on other farms or in other areas. In addition, CAFF's program evaluation always asks what elements of the event would we do differently in the future and why.

Subtask 7.4 Data compilation

At the start of the project, CAFF will coordinate research on farmers' and landowners' attitudes and barriers to implementing best management practices in relation to water quality and habitat. A comparison survey will be conducted within six month of completion of the project. Data will be compiled and summarized to assure consistency throughout the project period. In addition, data will include names, addresses, and interests of participating and other area farmers to support intensive and ongoing outreach to people in the project areas.

Subtask 7.5 Survey analysis

Survey development and data entry and compilation will assure that CAFF produces a clear and concise interpretation of survey results throughout the project. Importantly, consistent data management will enable CAFF to analyze pre- and post-project survey results in detail to measure the extent to which water quality and habitat awareness among farmers is changing on-farm management practices.

Task 8 Reporting

Subtask 8.1 Quarterly narrative reports

CAFF produces clear narrative reports to bring program evaluation and reporting news and perspectives to CALFED. These reporting systems are well established, and result in programs being shared both with funding agencies and with other farmers and landowners receiving various CAFF publications.

Subtask 8.2 Quarterly budget reports

CAFF's experience with CALFED has built a strong accounting system capable of producing any level of financial detail for quarterly budget reporting purposes. This subtask is a consistent portion of accounting tasks for CAFF, and will remain so as we continue a partnership with CALFED.

Subtask 8.3 Final report

The final six months of the project period will incorporate the process of preparing a final report. Both evaluation and reporting processes will help to determine the most detailed and relevant reporting framework possible for production of a final report. The document will not only inform funding agencies of progress toward goals, but also inform CAFF on program strategies that work to improve water quality and habitat through the transformation of farming practices.

**Timeline for
CAFF: Educating Farmers and Landowners in Biological Resource Management**

Task	Year 1		Year 2				Year 3				Dec- Mar 2004	
	Mar 2001	Jun 2001	Sep 2001	Dec 2002	Mar 2002	Jun 2002	Sep 2002	Dec 2003	Mar 2003	Jun 2003		Sep 2003
TASK 1 Data Collection												
1.1 Conduct baseline information & practices survey												
1.2 Conduct survey of barriers to implementation												
TASK 2 Planning & Project Management												
2.1 Establish Management Teams												
2.2 Hold Quarterly Management Team meetings												
2.3 Develop Work Plans												
TASK 3 Technical Assistance												
3.1 Recruit Landowners												
3.2 Develop farm plans for each Project area												
3.3 Farm Site Visits												

Attachment G

Task	Year 1				Year 2				Year 3			
	Mar 2001	Jun 2001	Sep 2001	Dec 2001	Mar 2002	Jun 2002	Sep 2002	Dec 2002	Mar 2003	Jun 2003	Sep 2003	Dec-Mar 2004
TASK 4 Demonstration Activities												
4.1 Create Plan for Clean Up and Restoration												
4.2 Hold Stakeholder meetings												
4.3 Site Preparation and Restoration												
4.4 Site Rejuvenation												
TASK 5 Educational Events												
5.1 Hold 6 Events (Solano)												
5.2 Hold 6 Events (Merced)												
TASK 6 Publications and Outreach												
6.1 Media Campaign and Public Relations												
6.2 Outreach for Events												
6.3 Community Relations Activities												
6.4 Publications, Lists, and Media Materials												
6.5 Workbook												

Attachment G

Task	Year 1					Year 2													
	Mar 2001	Jun 2001	Sep 2001	Dec 2002	Mar 2002	Jun 2002	Sep 2002	Dec 2003	Mar 2003	Jun 2003	Sep 2003	Dec- Mar 2004							
TASK 7 Evaluation and Assessment																			
7.1 Data Entry																			
7.2 Database Management																			
7.3 Evaluation of Program Events																			
7.4 Data Compilation																			
7.5 Survey Analysis																			
TASK 8 Reporting																			
8.1 Quarterly narrative reports																			
8.2 Quarterly Budget reports																			
8.3 Final Report																			

Current CALFED Project Status
(#97-N20)

The Community Alliance with Family Farmers (CAFF) currently receives funding from CALFED under contract agreement #97-N20 with the National Fish and Wildlife Foundation. The title of the project is "Reduction of Synthetic Pesticides and Fertilizers in Five California Counties — The BIOS Strategy." CAFF is in the third and final year of funding for this project.

CAFF's CALFED project operates in both the Sacramento and San Joaquin River watersheds. Counties being served include Stanislaus, Merced, Madera, San Joaquin and Colusa. The primary goal of the project is to significantly reduce the use of pesticides and fertilizers that have been shown to degrade water quality. Specific pesticides targeted for reduction are in the class of organophosphates, for example, diazinon, methidathion and chlorpyrifos. An additional goal is to reduce use of synthetic nitrogen. The project works directly with walnut and almond farmers who voluntarily enroll in the Biologically Integrated Orchard Systems (BIOS) program in order to institute a series of practices that benefit the ecosystem.

CAFF's program has been very successful. In 1999, CAFF was awarded the *Governor's Environmental and Economic Leadership Award* in the category of Innovation. The award letter states, "The caliber and impact of your work is impressive. You have demonstrated that environmental protection and conservation can be reconciled with economic growth. Your commitment to this goal is vitally important, and we encourage you to keep up the exceptional work."

CAFF's project is based on farmer-to-farmer education and outreach. At the heart of CAFF's project are the Lighthouse Farm Network and Biologically Integrated Orchard Systems (BIOS) events and field days. As a result of CALFED funding, CAFF has sponsored approximately 75 meetings, educational events, field days and demonstrations per year. These events in combination with our direct work with growers enrolled in the BIOS program have resulted in significant changes in farm management practices. The following are a few results cited in follow-up studies:

- Overall from 1995 – 1997, the BIOS growers (Merced and Madera counties) achieved a 58.2 percent reduction in organophosphate use relative to the non-BIOS growers.
- During the same period, BIOS growers reduced their use of diazinon by 91.3 percent.
- In the class of pyrethroids, net reduction in loading on the part of BIOS growers was 80 percent.
- The insecticide Bt (*Bacillus thuringiensis*) is unique in that its action is biological rather than chemical and has few off-site ecological impacts. BIOS growers used 27 times more Bt than non-BIOS growers.

(California Institute for Rural Studies Report, April 2000)

Additional studies show that "uniformly, BIOS orchards report a significantly lower proportion of fields treated with registered pesticides as compared with a matched group of cohort orchard fields...In the case of almonds, this share is now less than one-half; in walnuts about one-fourth." (Villarejo and Moore, 1998)

CAFF has developed an extensive collaborative network throughout the CALFED project, and has been instrumental in getting the almond and walnut Pest Management Alliances (PMAs) established. These projects help bring biological farming and reduced-risk practices to the attention of farmers in California. These PMAs are a partnership of the Almond Board of California, the Almond Hullers and Processors Association, the California Walnut Board, UC Statewide IPM and local Farm Advisors and several other local stakeholders. They have been funded by the Department of Pesticide Regulation for two years in a row.

It is clear that this project has changed how agencies work with the farming community to find reduced-risk farm management practices. To assure efficient outreach and public relations, CAFF conducted a complete overhaul of its computer information systems. We created a fully integrated CAFF database and staff members were trained to use the new system.

The media campaign has generated extensive coverage, with articles appearing in numerous trade journals and newspapers, and print advertisements on pesticide reduction appearing in the high profile *Nut Grower* magazine. The 1999 Farm Tour showcased three orchards managed with biologically integrated methods, and this year's Farm Tour will showcase two farms in Yolo County. These growers not only use biological practices, but have invested in habitat restoration practices such as planting native grasses and establishing tailwater ponds.

As a result of CAFF's BIOS program, similar programs have flourished throughout the state and reduced-risk practices are becoming more institutionalized. Several Biologically Integrated Farming Systems (BIFS) programs were modeled directly after BIOS and have reduced use of inputs such as methyl bromide, herbicides and fertilizers. Presently CAFF, the UC Sustainable Agriculture Research and Education Program (UC SAREP) and the Sustainable Agriculture Working Group (SAWG) are working to educate growers about the California Biological Agriculture Initiative which, if passed, will allocate increased state funding for sustainable agriculture research and education.

The work CAFF has done reflects great strides forward in implementing reduced-risk practices in the field. These reductions in pesticide use and other toxic inputs are well documented. CAFF continues to successfully educate farmers and others about the ecological and economic benefits of biological management practices.

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Technical Advisory Committee Members

CAFF is developing a Technical Advisory Committee (TAC) to provide additional expertise on technical issues for this project. We will locate individuals in various statewide agencies and non profit organizations who have a broad base of experience and knowledge in watershed and ecological issues.

Members of the TAC will be asked to make themselves available to project staff at times when technical questions arise that are beyond the knowledge base of CAFF and our partner organizations. TAC members will meet as a group with project collaborators at least three times during the project and will also receive quarterly project updates.

The following individuals have agreed to be on the TAC:

- Dawit Zeleke, Agricultural Programs Manager, The Nature Conservancy
- Neil Dubrovsky, Central Valley Programs Chief, U.S. Geological Service
- Robert Bugg, Ph.D., Director of Information Services, University of California Sustainable Agriculture Research and Education Program (UC SAREP)
- Steven Shaffer, Senior Agricultural Biologist, Office of Pesticide Consultation and Analysis, California Department of Food and Agriculture
- Vashek Cervinka, Agricultural Engineer, California Department of Water Resources

Attachment K

Letters of Disclosure of Potential Conflict of Interest

CalFed Bay-Delta Program
1416 Ninth Street, Suite 1155
Sacramento CA 95814

April 21, 2000

To CalFed Bay-Delta Program,

I am writing to disclose that I am currently serving as a consultant to CAFF and as a member of the Bay Delta Advisory Council (BDAC). Under conflict of interest rules (California Government Code Section 1090 and 1091), my interest appears to be "remote."

When I am present at BDAC meetings during which Ecosystem Restoration funding is under discussion, I have not only disclosed my potential interest, but have also left the room so as not to be present during the discussion.

My contract with CAFF expires December 2000. My duties include strategic planning and policy analysis. My position would not be funded by work described in the current proposal to the CalFed Ecosystem Restoration Program, or in any previous proposals.

Sincerely,


Judith Redmond

Attachment L

Letters of Support for the Proposed Project

East Merced Resource Conservation District

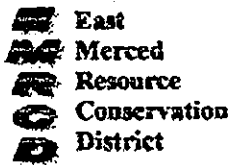
Stillwater Ecosystem, Watershed, and Riverine Sciences

H. G. Kelsey Ranch

Four Seasons Ag Consulting

USDA Natural Resources Conservation Service, Dixon

Ulatis Resource Conservation District



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2135 W. Wardrobe Ave. Ste. C
Merced, CA 95340
(209) 722-4119 ext. 3
FAX (209) 725-2964

May 12, 2000

James Tischer
Community Alliance With Family Farmers
P.O. Box 363
Davis, Ca 95617-0363

Dear Mr. Tischer,

We are pleased to provide this letter of support for the Community Alliance With Family Farmers' proposal, "Educating Farmers and Landowners in Biological Resource Management". This is an education program for farmers, ranchers, and landowners within the Merced River Watershed regarding biologic resource management.

This program addresses concerns raised by the CALFED ERP, in which water diversions, sediment load, and agricultural run off, are a major contributors to Bay Delta species and water problems.

The benefits to this proposal are many:

- Better and more efficient use of irrigation water
- Biological integrated farm management to reduce chemical loads
- Fertilizer use efficiency, the use of organic fertilizers
- Sediment reduction, non-point pollution
- Habitat enhancement

We are pleased to be active participants in this project and to work with CAFF to reach out to local landowners and provide information regarding biologic resource management. We believe that this collaborative project will help bring the community, landowners, and the resources together to preserve, maintain, and enhance the Merced River Watershed in our area.

The East Merced Resource Conservation District supports CAFF's proposal and looks forward to working on this important watershed project.

Thank you,

Everett Vieira Jr.
President
East Merced Resource Conservation District

Stillwater Ecosystem, Watershed & Riverine Sciences
2532 Durant Avenue Suite 201
Berkeley, CA 94704
Phone (510) 848-8098 Fax (510) 848-8398

May 11, 2000

James Tischer
Community Alliance With Family Farmers
P.O. Box 363
Davis, CA 95617-0363

Dear Mr. Tischer:

Stillwater Sciences supports your proposed CALFED proposal to educate farmers and landowners in biological resource management. Stillwater Sciences is a project partner with Merced County in the Merced River corridor restoration planning efforts, conducted in conjunction with the Merced River Stakeholder Group, Merced Irrigation District, California Department of Fish and Game, and the Merced River Technical Advisory Committee. As part of these efforts, we are working with farmers and other stakeholders to identify restoration opportunities and develop a restoration plan for the Merced River. We are pleased to be working with CAFF to make our respective projects complementary to leverage the highest efficiency for meeting our mutual project objectives. We support CAFF in this collaborative project to help bring the community and its resources together to preserve and enhance the watersheds within our regional area.

Sincerely,



Jennifer Vick

H.G. Kelsey Ranch
P.O. Box 324
Snelling, Ca 95369

May 12, 2000

James Tischer
Community Alliance With Family Farmers
P.O. Box 363
Davis, Ca 95617-0363

Dear Mr. Tischer,

My name is Jon Kelsey, I live within the Merced River watershed near the small town of Snelling. Our family has farmed and ranched in the Merced River floodplain and adjacent areas here since 1852.

In the last twenty years or so there have been major changes in relation to the historic use of the land. Old dry land farming and cattle grazing lands have now become vineyards, orchards, and other intensive agriculture uses. The use of pesticides, commercial fertilizers, deep ripping, to achieve success for these uses is becoming more prevalent and necessary to maintain this type of "new agriculture".

The results of these new agricultural processes are becoming quite apparent; loss and disappearance of sensitive habitats such as vernal pools and riparian areas, increased sediment load in the creeks and streams from run-off as a result of development of orchards and vineyards that was previously range land, higher nutrient loads being discharged into the watershed from these more intense agricultural operations, and increased pressure to sub divide and parcel these lands as many of the operations are not economically viable in the long term view of things.

This is why the Community Alliance With Family Farmers' proposal, "Educating Farmers and Landowners in Biological Resource Management" could become an important mechanism in creating change in the current non-sustainable trends we are seeing in our agricultural community. This is an education program for farmers, ranchers, and landowners within the Merced River Watershed regarding biologic resource management. If more awareness is spread through the community regarding the effects of current practices, the interactions of the biologic system, not only on the landowners' property, but on the whole watershed, then we may able to start to address the problems that are being created from the current non-holistic approach.

We at the Kelsey Ranch support CAFF's proposal "Educating Farmers and Landowners in Biological Resource Management" and looks forward to working with our neighbors on this important watershed project.

Thank you,



Jon Kelsey
Kelsey Ranch

Four Seasons Ag. Consulting, Inc.

12230 Livingston-Cressey Road

Livingston, California 95334

(209) 394-1420

May 11, 2000

James Tischer
Community Alliance with Family Farmers
P.O. Box 363
Davis, CA 95617-0363

Dear Mr. Tischer:

This letter is in support of the proposal you are submitting to CALFED with the purpose of educating farmers and landowners in the practices of biological resource management. As an independent crop consultant, a farmer and landowner of 70 acres along the Merced River I know that many of the management practices you will be promoting are very feasible. As in the BIOS project that I participated in, the value of the education, demonstration and technical support that would be made available to the stakeholders along our local rivers would be great. The positive impact of this project on our water quality, aquatic systems, and sense of community cooperation will be hastened and expanded. As a member of the Merced River landowners and general stakeholders group, I know that we would welcome your input and participation in our learning to care for our river in an environmentally and economically feasible way.

We offer our support and active participation to this project.

Sincerely,

Cynthia A. Lashbrook



United States
Department of
Agriculture

Natural
Resources
Conservation
Service

1170 North Lincoln, Suite 110
Dixon, CA 95620
(707) 678-1655 ext. 3
FAX (707) 678-5001

5/4/2000

James Tischer
Community Alliance with Family Farmers
P.O. Box 363
Davis, Ca 95617-0363

Dear Mr. Tischer,

The Dixon Field Office of the Natural Resources Conservation Service supports your proposed CALFED project to educate farmers and landowners in biological resource management. We are very excited by the opportunity to work with CAFF on this educational proposal. The NRCS and our sister agencies the resource conservation districts, are increasingly looking at the watershed affect of individual actions and seeking to educate landowners of the downstream impact of their practices.

The geographic location of this project area of Ulati Creek, including Barker Slough, and Putah Creek matches the Dixon Field office Environmental Quality Incentive Program Prospect-Cache Slough Watershed proposal. The proposal was submitted in 1999 and while not funded this past year, we are hopeful of funding in the future. The EQIP proposal identifies 138,00 acres of irrigated agricultural land within the CAFF education grant watershed needing conservation assistance. If funded, our EQIP program would provide cost-sharing for on farm practices to improve water quality, decrease runoff, reduce soil erosion, control invasive weeds, reduce pesticide applications reduce offsite pesticide effects, improve grazing mangement, protect riparian areas, and other practices. This CAFF proposal will provide an excellent medium to educate landowners to adopt these enhancement practices.

Thank you for the opportunity to partner on this important project.

Sincerely,

Walt Cheechov
District Conservationist



Ulatis Resource Conservation District

1170 N. Lincoln, Suite 110 - Dixon, CA 95620 - Phone: (707) 678-1655

May 12, 2000

James Tischer
Community Alliance With Family Farmers
P.O. Box 363
Davis, CA 95617-0363

Dear Mr. Tischer:

The Ulatis Resource Conservation District (URCD) is pleased to be a collaborator on your proposed CALFED project to educate farmers and landowners in biological resource management. We look forward to working closely with CAFF and the Solano County Water Agency to promote learning partnerships that produce positive results. We believe this collaborative project will help bring communities and resources together to preserve and enhance the watersheds within our regional area.

Through a combination of demonstration sites, field days and informational pieces, the project will promote good communication, collaboration and provide needed technical information about ways to preserve and enhance the ecosystem for the benefit of the entire watershed.

We support and look forward to working on this important project.

Sincerely,

Marcia Gibbs
Manager, URCD

Attachment M

Threshold Requirements

- M.1 Copies of Letters Sent to Local Planning Agencies**
- M.2 Environmental Compliance Checklist**
- M.3 Land Use Checklist**
- M.4 State and Federal Contract Forms**



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Robert Rautkis

Mike Ruhland

Sunny Shine

May 10, 2000

Betty Woo
Chair, Yolo County Planning Commission
292 W. Beamer
Woodland, CA 95695

Dear Ms. Woo,

The Community Alliance with Family Farmers is submitting a proposal to the CalFed Bay-Delta Program for the years 2001 through 2003. We plan to do work in your area and therefore are sending you a copy of our proposal for your perusal. We wish to coordinate and cooperate with local agencies as much as possible.

Our proposal fits primarily into the education category. Its primary purpose is to educate farmers and other landowners about watershed issues and ecological farm management practices. We also plan to work in conjunction with Marcia Gibbs of the Ulatis Resource Conservation District and Frank Morris of the Solano County Water Association as well as with Katie Pye of the Yolo County RCD. Work with them may involve some on-land activities, which may need your approval. Please feel free to contact Marcia Gibbs at (707) 678-1655 for further information. Also feel free to contact us at CAFF for a more detailed discussion of our planned work. You may contact Mark Cady, Deputy Director of Programs at (530) 756-8518 extn. 20.

Sincerely,

Jeri L. Ohmart
Grants Coordinator
CAFF



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WITH FAMILY FARMERS

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Robert Rautkis

Mike Ruhland

Sunny Shine

May 10, 2000

Bob Smith, Planning Director
Merced County Planning Commission
2222 M Street
Merced, CA 95304

Dear Mr. Smith,

The Community Alliance with Family Farmers is submitting a proposal to the CalFed Bay-Delta Program for the years 2001 through 2003. We plan to do work in your area and therefore are sending you a copy of our proposal for your perusal. We wish to coordinate and cooperate with local agencies as much as possible.

Our proposal fits primarily into the education category. Its primary purpose is to educate farmers and other landowners about watershed issues and ecological farm management practices. However, we also plan to work in conjunction with Christopher Robinson of Robinson Cattle and Rhonda Reed, the Anadromous Habitat Restoration Coordinator. Work with them may involve on-land activities, which may need your approval. Please feel free to contact Christopher Robinson at (209) 722-2502 or Rhonda Reed at (559) 243-4005 for further information. Also feel free to contact us at CAFF for a more detailed discussion of our planned work. You may contact Mark Cady, Deputy Director of Programs at (530) 756-8518 extn. 20.

Sincerely,

Jeri L. Ohmart
Grants Coordinator
CAFF



CAFF

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Mike Ruhland

Sunny Shine

May 10, 2000

Reed Robbins
Chair, Solano County Planning Commission
601 Texas St.
Fairfield, CA 94533

Dear Ms. Robbins,

The Community Alliance with Family Farmers is submitting a proposal to the CALFED Bay-Delta Program for the years 2001 through 2003. We plan to do work in your area and therefore are sending you a copy of our proposal for your perusal. We wish to coordinate and cooperate with local agencies as much as possible.

Our proposal fits primarily into the education category. Its primary purpose is to educate farmers and other landowners about watershed issues and ecological farm management practices. However, we also plan to work in conjunction with Marcia Gibbs of the Ulatris Resource Conservation District and Frank Morris of the Solano County Water Association. Work with them may involve on-land activities, which may need your approval. Please feel free to contact Marcia Gibbs at (707) 678-1655 for further information. Also feel free to contact us at CAFF for a more detailed discussion of our planned work. You may contact Mark Cady, Deputy Director of Programs at (530) 756-8518 extn. 20.

Sincerely,

Jeri L. Ohmart
Grants Coordinator
CAFF

Environmental Compliance Checklist

All applicants must fill out this Environmental Compliance Checklist. Applications must contain answers to the following questions to be responsive and to be considered for funding. Failure to answer these questions and include them with the application will result in the application being considered nonresponsive and not considered for funding.

1. Do any of the actions included in the proposal require compliance with either the California Environmental Quality Act (CEQA), the National Environmental Policy Act (NEPA), or both?

YES

X
NO

2. If you answered yes to # 1, identify the lead governmental agency for CEQA/NEPA compliance.

Lead Agency

3. If you answered no to # 1, explain why CEQA/NEPA compliance is not required for the actions in the proposal.

The proposed project is an education project only.

4. If CEQA/NEPA compliance is required, describe how the project will comply with either or both of these laws. Describe where the project is in the compliance process and the expected date of completion.

5. Will the applicant require access across public or private property that the applicant does not own to accomplish the activities in the proposal?

YES

X
NO

If yes, the applicant must attach written permission for access from the relevant property owner(s). Failure to include written permission for access may result in disqualification of the proposal during the review process. Research and monitoring field projects for which specific field locations have not been identified will be required to provide access needs and permission for access with 30 days of notification of approval.

Land Use Checklist

All applicants must fill out this Land Use Checklist for their proposal. Applications must contain answers to the following questions to be responsive and to be considered for funding. Failure to answer these questions and include them with the application will result in the application being considered nonresponsive and not considered for funding.

1. Do the actions in the proposal involve physical changes to the land (i.e. grading, planting vegetation, or breaching levees) or restrictions in land use (i.e. conservation easement or placement of land in a wildlife refuge)?

X
YES

NO

2. If NO to # 1, explain what type of actions are involved in the proposal (i.e., research only, planning only).

3. If YES to # 1, what is the proposed land use change or restriction under the proposal?

There will be riparian and working farmland revegetation.

4. If YES to # 1, is the land currently under a Williamson Act contract? → not applicable, as sites are not yet determined

YES

NC

5. If YES to # 1, answer the following: *n/a*

Current land use

Current zoning

Current general plan designation

6. If YES to #1, is the land classified as Prime Farmland, Farmland of Statewide Importance or Unique Farmland on the Department of Conservation Important Farmland Maps? *n/a*

YES

NO

DON'T KNOW

7. If YES to # 1, how many acres of land will be subject to physical change or land use restrictions under the proposal? ~1/2

YES

NO

9. If YES to #8, what are

the number of employees/acre _____
the total number of employees _____ n/a

NONDISCRIMINATION COMPLIANCE STATEMENT

STD. 19 (REV. 3-95) FMC

COMPANY NAME

The company named above (hereinafter referred to as "prospective contractor") hereby certifies, unless specifically exempted, compliance with Government Code Section 12990 (a-f) and California Code of Regulations, Title 2, Division 4, Chapter 5 in matters relating to reporting requirements and the development, implementation and maintenance of a Nondiscrimination Program. Prospective contractor agrees not to unlawfully discriminate, harass or allow harassment against any employee or applicant for employment because of sex, race, color, ancestry, religious creed, national origin, disability (including HIV and AIDS), medical condition (cancer), age, marital status, denial of family and medical care leave and denial of pregnancy disability leave.

CERTIFICATION

I, the official named below, hereby swear that I am duly authorized to legally bind the prospective contractor to the above described certification. I am fully aware that this certification, executed on the date and in the county below, is made under penalty of perjury under the laws of the State of California.

OFFICIAL'S NAME

JAMES R. TISCHER, EXECUTIVE DIRECTOR

DATE EXECUTED

MAY 14, 2006

EXECUTED IN THE COUNTY OF

Yolo County

PROSPECTIVE CONTRACTOR'S SIGNATURE

James R. Tischler

PROSPECTIVE CONTRACTOR'S TITLE

EXECUTIVE DIRECTOR

PROSPECTIVE CONTRACTOR'S LEGAL BUSINESS NAME

Community Alliance with Family Farmers (CAFF)

**STANDARD CLAUSES -
SERVICE & CONSULTANT SERVICE CONTRACTS FOR \$5,000 & OVER WITH NONPUBLIC ENTITIES**

Workers' Compensation Clause. Contractor affirms that it is aware of the provisions of Section 3700 of the California Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that Code, and Contractor affirms that it will comply with such provisions before commencing the performance of the work under this contract.

National Labor Relations Board Clause. In accordance with Public Contract Code Section 10296, Contractor declares under penalty of perjury that no more than one final, unappealable finding of contempt of court by a federal court has been issued against the Contractor within the immediately preceding two-year period because of Contractor's failure to comply with an order of a federal court which orders Contractor to comply with an order of the national Labor Relations Board.

Nondiscrimination Clause. During the performance of this contract, the recipient, Contractor and its subcontractors shall not deny the contract's benefits to any person on the basis of religion, color, ethnic group identification, sex, age, physical or mental disability, nor shall they discriminate unlawfully against any employee or applicant for employment because of race, religion, color, national origin, ancestry, physical handicap, mental disability, medical condition, marital status, age (over 40), or sex. Contractor shall insure that the evaluation and treatment of employees and applicants for employment are free of such discrimination. Contractor shall comply with the provisions of the Fair Employment and Housing Act (Government Code Section 12900 et seq.), the regulations promulgated thereunder (California Administrative Code, Title 2, Sections 7285.0 et seq.), the provisions of Article 9.5, Chapter 1, Part 1, Division 3, Title 2 of the Government Code (Government Code Sections 11135 - 11139.5), and the regulations or standards adopted by the awarding State agency to implement such article. Contractor or recipient shall permit access by representatives of the Department of Fair Employment and Housing and the awarding State agency upon reasonable notice at any time during the normal business hours, but in no case less than 24 hours' notice, to such of its books, records, accounts, other sources of information and its facilities as said Department or Agency shall require to ascertain compliance with this clause. Recipient, Contractor and its subcontractors shall give written notice of their obligations under this clause to labor organizations with which they have a collective bargaining or other agreement. The Contractor shall include the nondiscrimination and compliance provisions of this clause in all subcontracts to perform work under the contract.

Statement of Compliance. The Contractor's signature affixed hereon and dated shall constitute a certification under penalty of perjury under the laws of the State of California that the Contractor has, unless exempted, complied with the nondiscrimination program requirements of Government Code Section 12990 and Title 2, California Code of Regulations, Section 8103.

Performance Evaluation. For consulting service agreements, Contractor's performance under this contract will be evaluated after completion. A negative evaluation will be filed with the Department of General Services.

Availability of Funds. Work to be performed under this contract is subject to availability of funds through the State's normal budget process.

Audit Clause. For contracts in excess of \$10,000, the contracting parties shall be subject to the examination and audit of the State Auditor for a period of three years after final payment under the contract. (Government Code Section 8546.7).

Payment Retention Clause. Ten percent of any progress payments that may be provided for under this contract shall be withheld per Public Contract Code Sections 10346 and 10379 pending satisfactory completion of all services under the contract.

Reimbursement Clause. If applicable, travel and per diem expenses to be reimbursed under this contract shall be at the same rates the State provides for unrepresented employees in accordance with the provisions of Title 2, Chapter 3, of the California Code of Regulations. Contractor's designated headquarters for the purpose of computing such expenses shall be: _____.

Disabled Veteran Business Enterprise Participation Requirement Audit Clause. Contractor or vendor agrees that the awarding department or its delegates will have the right to review, obtain, and copy all records pertaining to performance of the contract. Contractor or vendor agrees to provide the awarding department or its delegate access to its premises, upon reasonable notice, during normal business hours for the purpose of interviewing employees and inspecting and copying such books, records, accounts, and other material that may be relevant to a matter under investigation for the purpose of determining compliance with Public Contract Code Section 10115 et seq. Contractor or vendor further agrees to maintain such records for a period of three (3) years after final payment under the contract. Title 2 CCR Section 1896.75.

Priority Hiring Considerations. For contracts in excess of \$200,000, the Contractor shall give priority consideration in filling vacancies in positions funded by the contract to qualified recipients of aid under Welfare and Institutions Code Section 11200. (Public Contract Code Section 10353).

Agreement No. _____

Exhibit _____

ADDITIONAL STANDARD CLAUSES

Recycled Materials. Contractor hereby certifies under penalty of perjury that ____ (enter value or "0" here) percent of the materials, goods and supplies offered or products used in the performance of this Agreement meets or exceeds the minimum percentage of recycled material as defined in Sections 12161 and 12200 of the Public Contract Code.

Severability. If any provision of this Agreement is held invalid or unenforceable by any court of final jurisdiction, it is the intent of the parties that all other provisions of this Agreement be construed to remain fully valid, enforceable, and binding on the parties.

Governing Law. This Agreement is governed by and shall be interpreted in accordance with the laws of the State of California.

Y2K Language. The Contractor warrants and represents that the goods or services sold, leased, or licensed to the State of California, its agencies, or its political subdivisions, pursuant to this Agreement are "Year 2000 compliant." For purposes of this Agreement a good or service is Year 2000 compliant if it will continue to fully function before, at, and after the Year 2000 without interruption and, if applicable, with full ability to accurately and unambiguously process, display, compare, calculate, manipulate, and otherwise utilize date information. This warranty and representation supersedes all warranty disclaimers and limitations and all limitations on liability provided by or through the Contractor.

Child Support Compliance Act. For any Agreement in excess of \$100,000, the Contractor acknowledges in accordance therewith, that:

1. The Contractor recognizes the importance of child and family support obligations and shall fully comply with all applicable state and federal laws relating to child and family support enforcement, including, but not limited to, disclosure of information and compliance with earnings assignment orders, as provided in Chapter 8 (commencing with Section 5200) of Part 5 of Division 9 of the Family Code; and
2. The Contractor, to the best of its knowledge, is fully complying with the earnings assignment orders of all employees and is providing the names of all new employees to the New Hire Registry maintained by the California Employment Development Department.

Attachment E

Federal Contracting Forms

If you would like to research the governing circulars or would like copies of them, the OMB website is "<http://www.whitehouse.gov/OMB/circulars/index.html>". The Washington, D.C. publications ordering telephone number, (202) 395-7332. The following circulars may be relevant to your proposal.

- Circular A-21, Revised October 27, 1998, "Cost Principles For Educational Institutions"
- Circular A-110, Revised August 29, 1997, "Uniform Administrative Requirements for Grants and Agreements with Institutions of Higher Education, Hospitals, and Other Non-profit Organizations"
- Circular A-133, Revised June 24, 1997, "Audits of States, Local Governments, and Non-profit Organizations"
- Circular A-87, Revised August 29, 1997, "Cost Principles for State, Local and Indian Tribal Governments"
- Circular A-102, Revised August 29, 1997, "Uniform Administrative Requirements for Grants and Cooperative Agreements with State and Local Governments"
- Circular A-133, Revised June 24, 1997, "Audits of States, Local Governments, and Non-profit Organizations"
- Circular A-110, Revised August 29, 1997, "Uniform Administrative Requirements for Grants and Agreements With Institutions of Higher Education, Hospitals, and Other Non-profit Organizations"
- Circular A-122, Revised May 19, 1998, "Cost Principles for Non-profit Organizations"
- Circular A-133, Revised June 24, 1997, "Audits of States, Local Governments, and Non-profit Organizations"
- All agreements with organizations other than those indicated above shall be in accordance with the basic principles of OMB Circular A-110, and cost principles shall be in accordance with Part 31 of the Federal Acquisition Regulations, Subpart 31.2 entitled, "Contracts with Commercial Organizations."

Standard USBR Financial Assistance Agreement Language.

REGULATIONS AND GUIDANCE. The regulations at 43 CFR, Part 12, Subparts A - F are hereby incorporated by reference as though set forth in full text. The following Office of Management and Budget (OMB) Circulars, as applicable, and as implemented by 43 CFR Part 12, are also incorporated by reference and made a part of this agreement. Failure of a recipient to comply with any provision may be the basis for withholding payments for proper charges made by the recipient and for termination of support. Copies of OMB Circulars are available on the Internet at <http://www.whitehouse.gov/OMB/circulars/index.html>. The implementation of the circulars at 43 CFR Part 12 is available at <http://www.access.gpo.gov/nara/cfr/index.html>.

- a. Agreements with colleges and universities shall be in accordance with the following circulars:

Electronic Funds Transfer (EFT) unless a waiver has been granted in accordance with 31 CFR 208.4. Upon award of a financial assistance agreement, Reclamation will provide the recipient with further instructions for implementation of EFT payments or a certification form to request exemption from EFT.

ASSURANCES INCORPORATED BY REFERENCE. The provisions of the Assurances executed by the Recipient in connection with this agreement shall apply with full force and effect to this agreement as if fully set forth in these General Provisions. Such Assurances include, but are not limited to, the promise to comply with all applicable Federal statutes and orders relating to nondiscrimination in employment, assistance, and housing; the Hatch Act; Federal wage and hour laws and regulations and work place safety standards; Federal environmental laws and regulations and the Endangered Species Act; and Federal protection of rivers and waterways and historic and archeological preservation.

COVENANT AGAINST CONTINGENT FEES. The recipient warrants that no person or agency has been employed or retained to solicit or secure this agreement upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, excepting bona fide employees or bona fide offices established and maintained by the recipient for the purpose of securing agreements or business. For breach or violation of this warranty, the Government shall have the right to annul this agreement without liability or, in its discretion, to deduct from the agreement amount, or otherwise recover, the full amount of such commission, percentage, brokerage, or contingent fee.

CONTRACTING WITH SMALL AND MINORITY FIRMS, AND WOMEN'S BUSINESS ENTERPRISES. It is a national policy to award a fair share of contracts to small and minority business firms. The Department of the Interior is strongly committed to the objectives of this policy and encourages all recipients of its grants and cooperative agreements to take affirmative steps to ensure such fairness.

a. The grantee and subgrantee shall take all necessary affirmative steps to assure that minority firms, and women's business enterprises are used when possible.

b. Affirmative steps shall include:

- (1) Placing qualified small and minority businesses and women's business enterprises on solicitation lists;
- (2) Assuring that small and minority businesses, and women's business enterprises are solicited whenever they are potential sources;
- (3) Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority business, and women's business enterprises;
- (4) Establishing delivery schedules, where the requirement permits, which encourage participation by small and minority business, and women's business enterprises;
- (5) Using the services and assistance of the Small Business Administration, and the Minority Business Development Agency of the Department of Commerce as appropriate, and

ASSURANCES - NON-CONSTRUCTION PROGRAMS

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0040), Washington, DC 20503.

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

NOTE: Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the awarding agency. Further, certain Federal awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project cost) to ensure proper planning, management and completion of the project described in this application.
2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
4. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
5. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 13 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
6. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee 3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and, (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.
7. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
8. Will comply, as applicable, with provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

9. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327-333), regarding labor standards for federally-assisted construction subagreements.
10. Will comply, if applicable, with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.
11. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).
12. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.
13. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470), EO 11593 (identification and protection of historic properties); and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a-1 et seq.).
14. Will comply with P.L. 93-348 regarding the protection of human subjects involved in research, development, and related activities supported by this award of assistance.
15. Will comply with the Laboratory Animal Welfare Act of 1966 (P.L. 89-544, as amended, 7 U.S.C. §§2131 et seq.) pertaining to the care, handling, and treatment of warm blooded animals held for research, teaching, or other activities supported by this award of assistance.
16. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.
17. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."
18. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.

SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL		TITLE	
<i>James R. Trichter</i>		Executive Director	
APPLICANT ORGANIZATION		DATE SUBMITTED	
Community Alliance with Family Farmers		May 15, 2000	

INSTRUCTIONS FOR THE SF-424A

Public reporting burden for this collection of information is estimated to average 180 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0044), Washington, DC 20503.

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

General Instructions

This form is designed so that application can be made for funds from one or more grant programs. In preparing the budget, adhere to any existing Federal grantor agency guidelines which prescribe how and whether budgeted amounts should be separately shown for different functions or activities within the program. For some programs, grantor agencies may require budgets to be separately shown by function or activity. For other programs, grantor agencies may require a breakdown by function or activity. Sections A, B, C, and D should include budget estimates for the whole project except when applying for assistance which requires Federal authorization in annual or other funding period increments. In the latter case, Sections A, B, C, and D should provide the budget for the first budget period (usually a year) and Section E should present the need for Federal assistance in the subsequent budget periods. All applications should contain a breakdown by the object class categories shown in Lines a-k of Section B.

Section A. Budget Summary Lines 1-4 Columns (a) and (b)

For applications pertaining to a *single* Federal grant program (Federal Domestic Assistance Catalog number) and *not requiring* a functional or activity breakdown, enter on Line 1 under Column (a) the Catalog program title and the Catalog number in Column (b).

For applications pertaining to a *single* program *requiring* budget amounts by multiple functions or activities, enter the name of each activity or function on each line in Column (a), and enter the Catalog number in Column (b). For applications pertaining to multiple programs where *none* of the programs require a breakdown by function or activity, enter the Catalog program title on each line in *Column (a)* and the respective Catalog number on each line in Column (b).

For applications pertaining to *multiple* programs where one or more programs *require* a breakdown by function or activity, prepare a separate sheet for each program requiring the breakdown. Additional sheets should be used when one form does not provide adequate space for all breakdown of data required. However, when more than one sheet is used, the first page should provide the summary totals by programs.

Lines 1-4, Columns (c) through (g)

For new applications, leave Column (c) and (d) blank. For each line entry in Columns (a) and (b), enter in Columns (e), (f), and (g) the appropriate amounts of funds needed to support the project for the first funding period (usually a year).

For continuing grant program applications, submit these forms before the end of each funding period as required by the grantor agency. Enter in Columns (c) and (d) the estimated amounts of funds which will remain unobligated at the end of the grant funding period only if the Federal grantor agency instructions provide for this. Otherwise, leave these columns blank. Enter in columns (e) and (f) the amounts of funds needed for the upcoming period. The amount(s) in Column (g) should be the sum of amounts in Columns (e) and (f).

For supplemental grants and changes to existing grants, do not use Columns (c) and (d). Enter in Column (e) the amount of the increase or decrease of Federal funds and enter in Column (f) the amount of the increase or decrease of non-Federal funds. In Column (g) enter the new total budgeted amount (Federal and non-Federal) which includes the total previous authorized budgeted amounts plus or minus, as appropriate, the amounts shown in Columns (e) and (f). The amount(s) in Column (g) should not equal the sum of amounts in Columns (e) and (f).

Line 5 - Show the totals for all columns used.

Section B Budget Categories

In the column headings (1) through (4), enter the titles of the same programs, functions, and activities shown on Lines 1-4, Column (a), Section A. When additional sheets are prepared for Section A, provide similar column headings on each sheet. For each program, function or activity, fill in the total requirements for funds (both Federal and non-Federal) by object class categories.

Line 6a-i - Show the totals of Lines 6a to 6h in each column.

Line 6j - Show the amount of indirect cost.

Line 6k - Enter the total of amounts on Lines 6i and 6j. For all applications for new grants and continuation grants the total amount in column (5), Line 6k, should be the same as the total amount shown in Section A, Column (g), Line 5. For supplemental grants and changes to grants, the total amount of the increase or decrease as shown in Columns (1)-(4), Line 6k should be the same as the sum of the amounts in Section A, Columns (e) and (f) on Line 5.

Line 7 - Enter the estimated amount of income, if any, expected to be generated from this project. Do not add or subtract this amount from the total project amount. Show under the program

ASSURANCES - NON-CONSTRUCTION PROGRAMS

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NOTE: Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the awarding agency. Further, certain Federal awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project cost) to ensure proper planning, management and completion of the project described in this application.
2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
4. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
5. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
6. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation

Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee 3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and, (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.

7. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
8. Will comply, as applicable, with provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

U.S. Department of the Interior

**Certifications Regarding Debarment, Suspension and
Other Responsibility Matters, Drug-Free Workplace
Requirements and Lobbying**

Persons signing this form should refer to the regulations referenced below for complete instructions:

Certification Regarding Debarment, Suspension, and Other Responsibility Matters - Primary Covered Transactions - The prospective primary participant further agrees by submitting this proposal that it will include the clause titled, "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transaction," provided by the department or agency entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions. See below for language to be used; use this form for certification and sign; or use Department of the Interior Form 1954 (DI-1954). (See Appendix A of Subpart D of 43 CFR Part 12.)

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transactions - (See Appendix B of Subpart D of 43 CFR Part 12.)

Certification Regarding Drug-Free Workplace Requirements - Alternate I. (Grantees Other Than Individuals) and Alternate II. (Grantees Who are Individuals) - (See Appendix C of Subpart D of 43 CFR Part 12.)

Signature on this form provides for compliance with certification requirements under 43 CFR Parts 12 and 18. The certifications shall be treated as a material representation of fact upon which reliance will be placed when the Department of the Interior determines to award the covered transaction, grant, cooperative agreement or loan.

**PART A: Certification Regarding Debarment, Suspension, and Other Responsibility Matters -
Primary Covered Transactions**

CHECK ☐ IF THIS CERTIFICATION IS FOR A PRIMARY COVERED TRANSACTION AND IS APPLICABLE.

- (1) The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:
- (a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
 - (b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
 - (c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (1)(b) of this certification; and
 - (d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.
- (2) Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

**PART B: Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion -
Lower Tier Covered Transactions**

CHECK ☐ IF THIS CERTIFICATION IS FOR A LOWER TIER COVERED TRANSACTION AND IS APPLICABLE.

- (1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- (2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

PART E: Certification Regarding Lobbying
Certification for Contracts, Grants, Loans, and Cooperative Agreements

CHECK IF CERTIFICATION IS FOR THE AWARD OF ANY OF THE FOLLOWING AND THE AMOUNT EXCEEDS \$100,000: A FEDERAL GRANT OR COOPERATIVE AGREEMENT, SUBCONTRACT, OR SUBGRANT UNDER THE GRANT OR COOPERATIVE AGREEMENT.

CHECK IF CERTIFICATION IS FOR THE AWARD OF A FEDERAL LOAN EXCEEDING THE AMOUNT OF \$150,000, OR A SUBGRANT OR SUBCONTRACT EXCEEDING \$100,000, UNDER THE LOAN.

The undersigned certifies, to the best of his or her knowledge and belief, that:

- (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, and officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
- (3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

As the authorized certifying official, I hereby certify that the above specified certifications are true.

SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL



TYPED NAME AND TITLE

James R. Tischler Executive Director

DATE

5/15/00

APPLICATION FOR FEDERAL ASSISTANCE

OMB Approval No. 0348-0043

1. TYPE OF SUBMISSION: Application <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Non-Construction Preapplication <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Non-Construction		2. DATE SUBMITTED May 15, 2000	Applicant Identifier
		3. DATE RECEIVED BY STATE	State Application Identifier
		4. DATE RECEIVED BY FEDERAL AGENCY	Federal Identifier

5. APPLICANT INFORMATION Legal Name: <u>Community Alliance with Family Farmers (CAFF)</u> Address (give city, county, State, and zip code): <u>P.O. Box 363</u> <u>Davis, CA 95617</u> <u>Yolo County</u>		Organizational Unit: <u>nonprofit organization 501(c)(3)</u> Name and telephone number of person to be contacted on matters involving this application (give area code): <u>James R. Tischer, Executive Director</u> <u>(530) 756-8518 ext. 36</u>
6. EMPLOYER IDENTIFICATION NUMBER (EIN): <u>94-2914745</u>	7. TYPE OF APPLICANT: (enter appropriate letter in box) <div style="display: flex; justify-content: space-between;"> <div> A. State B. County C. Municipal D. Township E. Interstate F. Intermunicipal G. Special District </div> <div> H. Independent School Dist. I. State Controlled Institution of Higher Learning J. Private University K. Indian Tribe L. Individual M. Profit Organization N. Other (Specify) <u>nonprofit org.</u> </div> </div>	
8. TYPE OF APPLICATION: <div style="display: flex; justify-content: space-around;"> <input checked="" type="checkbox"/> New <input type="checkbox"/> Continuation <input type="checkbox"/> Revision </div> If Revision, enter appropriate letter(s) in box(es) <input type="checkbox"/> <input type="checkbox"/> A. Increase Award B. Decrease Award C. Increase Duration D. Decrease Duration Other(specify): _____	9. NAME OF FEDERAL AGENCY: <u>CalFed Bay-Delta Program</u> <u>National Fish and Wildlife Foundation</u>	
10. CATALOG OF FEDERAL DOMESTIC ASSISTANCE NUMBER: <div style="text-align: center;"> <input checked="" type="checkbox"/><input checked="" type="checkbox"/> - <input checked="" type="checkbox"/><input checked="" type="checkbox"/><input checked="" type="checkbox"/><input checked="" type="checkbox"/> </div> TITLE: <u>CalFed</u>	11. DESCRIPTIVE TITLE OF APPLICANT'S PROJECT: <u>Community Alliance with Family Farmers:</u> <u>Educating Farmers and Landowners</u> <u>in Biological Resource Management</u>	
12. AREAS AFFECTED BY PROJECT (Cities, Counties, States, etc.): <u>Merced, Yolo and Solano counties</u>		

13. PROPOSED PROJECT		14. CONGRESSIONAL DISTRICTS OF:	
Start Date <u>3/1/2001</u>	Ending Date <u>3/31/2004</u>	a. Applicant <u>Community Alliance with Family Farmers</u>	b. Project

15. ESTIMATED FUNDING:		16. IS APPLICATION SUBJECT TO REVIEW BY STATE EXECUTIVE ORDER 12372 PROCESS?	
a. Federal	\$ <u>1,066,593</u> ⁰⁰	a. YES. THIS PREAPPLICATION/APPLICATION WAS MADE AVAILABLE TO THE STATE EXECUTIVE ORDER 12372 PROCESS FOR REVIEW ON: DATE _____	
b. Applicant	\$ <u>0</u> ⁰⁰	b. No. <input checked="" type="checkbox"/> PROGRAM IS NOT COVERED BY E. O. 12372. <input type="checkbox"/> OR PROGRAM HAS NOT BEEN SELECTED BY STATE FOR REVIEW	
c. State	\$ <u>0</u> ⁰⁰		
d. Local	\$ <u>0</u> ⁰⁰		
e. Other	\$ <u>0</u> ⁰⁰		
f. Program Income	\$ <u>0</u> ⁰⁰		
g. TOTAL	\$ <u>1,066,593</u> ⁰⁰	17. IS THE APPLICANT DELINQUENT ON ANY FEDERAL DEBT? <input type="checkbox"/> Yes If "Yes," attach an explanation. <input checked="" type="checkbox"/> No	

18. TO THE BEST OF MY KNOWLEDGE AND BELIEF, ALL DATA IN THIS APPLICATION/PREAPPLICATION ARE TRUE AND CORRECT, THE DOCUMENT HAS BEEN DULY AUTHORIZED BY THE GOVERNING BODY OF THE APPLICANT AND THE APPLICANT WILL COMPLY WITH THE ATTACHED ASSURANCES IF THE ASSISTANCE IS AWARDED.		
a. Type Name of Authorized Representative <u>James R. Tischer</u>	b. Title <u>Executive Director</u>	c. Telephone Number <u>(530) 756-8518 ext. 36</u>
d. Signature of Authorized Representative <u>James R. Tischer</u> <u>5/15/00</u>		e. Date Signed <u>May 15, 2000</u>

INSTRUCTIONS FOR THE SF-424

Public reporting burden for this collection of information is estimated to average 45 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0043), Washington, DC 20503.

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

This is a standard form used by applicants as a required facesheet for preapplications and applications submitted for Federal assistance. It will be used by Federal agencies to obtain applicant certification that States which have established a review and comment procedure in response to Executive Order 12372 and have selected the program to be included in their process, have been given an opportunity to review the applicant's submission.

- | Item: | Entry: |
|--|--|
| 1. Self-explanatory. | 12. List only the largest political entities affected (e.g., State, counties, cities). |
| 2. Date application submitted to Federal agency (or State if applicable) and applicant's control number (if applicable). | 13. Self-explanatory. |
| 3. State use only (if applicable). | 14. List the applicant's Congressional District and any District(s) affected by the program or project. |
| 4. If this application is to continue or revise an existing award, enter present Federal identifier number. If for a new project, leave blank. | 15. Amount requested or to be contributed during the first funding/budget period by each contributor. Value of in-kind contributions should be included on appropriate lines as applicable. If the action will result in a dollar change to an existing award, indicate <u>only</u> the amount of the change. For decreases, enclose the amounts in parentheses. If both basic and supplemental amounts are included, show breakdown on an attached sheet. For multiple program funding, use totals and show breakdown using same categories as item 15. |
| 5. Legal name of applicant, name of primary organizational unit which will undertake the assistance activity, complete address of the applicant, and name and telephone number of the person to contact on matters related to this application. | 16. Applicants should contact the State Single Point of Contact (SPOC) for Federal Executive Order 12372 to determine whether the application is subject to the State intergovernmental review process. |
| 6. Enter Employer Identification Number (EIN) as assigned by the Internal Revenue Service. | 17. This question applies to the applicant organization, not the person who signs as the authorized representative. Categories of debt include delinquent audit disallowances, loans and taxes. |
| 7. Enter the appropriate letter in the space provided. | 18. To be signed by the authorized representative of the applicant. A copy of the governing body's authorization for you to sign this application as official representative must be on file in the applicant's office. (Certain Federal agencies may require that this authorization be submitted as part of the application.) |
| 8. Check appropriate box and enter appropriate letter(s) in the space(s) provided:

-- "New" means a new assistance award.

-- "Continuation" means an extension for an additional funding/budget period for a project with a projected completion date.

-- "Revision" means any change in the Federal Government's financial obligation or contingent liability from an existing obligation. | |
| 9. Name of Federal agency from which assistance is being requested with this application. | |
| 10. Use the Catalog of Federal Domestic Assistance number and title of the program under which assistance is requested. | |
| 11. Enter a brief descriptive title of the project. If more than one program is involved, you should append an explanation on a separate sheet. If appropriate (e.g., construction or real property projects), attach a map showing project location. For preapplications, use a separate sheet to provide a summary description of this project. | |

BUDGET INFORMATION - Non-Construction Programs

OMB Approval No. 0348-0044

SECTION A - BUDGET SUMMARY

Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget	
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)
1. CalFed		\$	\$	\$ 1,066,593.00	\$ 0
2.					
3.					
4.					
5. Totals		\$	\$	\$ 1,066,593.00	\$ 0

SECTION B - BUDGET CATEGORIES

6. Object Class Categories	GRANT PROGRAM, FUNCTION OR ACTIVITY				
	(1)	(2)	(3)	(4)	Total (5)
a. Personnel	\$	\$	\$ 362,654.00	\$ 0	\$ 362,654.00
b. Fringe Benefits			116,049.00		116,049.00
c. Travel			5606.00		5606.00
d. Equipment			0		0
e. Supplies			33,240.00		33,240.00
f. Contractual			267,370.00		267,370.00
g. Construction			0		0
h. Other			48,358.00		48,358.00
i. Total Direct Charges (sum of 6a-6h)			833,277.00	0	833,277.00
j. Indirect Charges			233,316.00	0	233,316.00
k. TOTALS (sum of 6i and 6j)	\$	\$	\$ 1,066,593.00	\$ 0	\$ 1,066,593.00
7. Program Income	\$	\$	0	0	0

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SECTION C - NON-FEDERAL RESOURCES

(a) Grant Program	(b) Applicant	(c) State	(d) Other Sources	(e) TOTALS
8. <i>0</i>	\$ <i>0</i>	\$ <i>0</i>	\$ <i>0</i>	\$ <i>0</i>
9.				
10.				
11.				
12. TOTAL (sum of lines 8-11)	\$	\$	\$	\$

SECTION D - FORECASTED CASH NEEDS

	Total for 1st Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
13. Federal	\$ 439,134.00	\$ 109,783.50	\$ 109,783.50	\$ 109,783.50	\$ 109,783.50
14. Non-Federal	\$ <i>0</i>	\$ <i>0</i>	\$ <i>0</i>	\$ <i>0</i>	\$ <i>0</i>
15. TOTAL (sum of lines 13 and 14)	\$	\$	\$	\$	\$

SECTION E - BUDGET ESTIMATES OF FEDERAL FUNDS NEEDED FOR BALANCE OF THE PROJECT

(a) Grant Program	FUTURE FUNDING PERIODS (Years)				
	(b) First	(c) Second	(d) Third	(e) Fourth	
16.	\$ <i>0</i>	\$ <i>0</i>	\$ <i>0</i>	\$ <i>0</i>	
17.	\$	\$	\$	\$	
18.	\$	\$	\$	\$	
19.	\$	\$	\$	\$	
20. TOTAL (sum of lines 16-19)	\$	\$	\$	\$	

SECTION F - OTHER BUDGET INFORMATION

21. Direct Charges:	22. Indirect Charges:
23. Remarks:	

Attachment N

Complete Project Budget

**Community Alliance with Family Farmers
CalFed Proposal**

BUDGET DOCUMENTS

Table 1.1 Project Budget Summary

Table 1.2 CAFF – CalFed Budget

Table 1.3 CAFF Budget by Task and Personnel

Table 1.4 CAFF Hours by Task and Personnel

Table 1.5 Subcontractor Budget by Task and Personnel

Table 1.6 Subcontractor Hours by Task and Personnel

Table 1.1: PROJECT BUDGET SUMMARY				
Task	Labor	Expenses	Overhead	Task Total
Task 1 Data Collection	\$20,769	\$1,324	\$6,186	\$28,279
Task 2 Planning and Management	\$35,482	\$374	\$10,040	\$45,896
Task 3 Technical Assistance	\$46,264	\$870	\$13,198	\$60,332
Task 4 Demonstration Activities	\$50,159	\$3,000	\$14,885	\$68,044
Task 5 Educational Events	\$35,085	\$4,748	\$11,153	\$50,986
Task 6 Publications and Outreach	\$58,485	\$12,500	\$19,876	\$90,861
Task 7 Evaluation and Assessment	\$29,923	\$500	\$8,518	\$38,941
Task 8 Reporting	\$43,540	\$50	\$12,205	\$55,796
YEAR 1 Budget Totals	\$319,707	\$23,366	\$96,060	\$439,134
Task 2 Planning and Management	\$14,688	\$274	\$4,189	\$19,151
Task 3 Technical Assistance	\$21,807	\$670	\$6,294	\$28,771
Task 4 Demonstration Activities	\$59,614	\$3,000	\$17,532	\$80,146
Task 5 Educational Events	\$31,468	\$8,050	\$11,065	\$50,583
Task 6 Publications and Outreach	\$58,485	\$12,500	\$19,876	\$90,861
Task 7 Evaluation and Assessment	\$19,319	\$500	\$5,549	\$25,368
Task 8 Reporting	\$38,077	\$50	\$10,675	\$48,802
YEAR II Budget Totals	\$243,459	\$25,044	\$75,180	\$343,683
Task 2 Planning and Management	\$11,430	\$274	\$3,277	\$14,981
Task 3 Technical Assistance	\$21,574	\$670	\$6,228	\$28,473
Task 5 Educational Events	\$32,136	\$7,800	\$11,182	\$51,118
Task 6 Publications and Outreach	\$65,711	\$29,500	\$26,659	\$121,870
Task 7 Evaluation and Assessment	\$14,861	\$500	\$4,301	\$19,661
Task 8 Reporting	\$37,195	\$50	\$10,429	\$47,674
YEAR III Budget Totals	\$182,907	\$38,794	\$62,076	\$283,777
TOTAL PROJECT	\$746,073	\$87,204	\$233,316	\$1,066,593

Table 1.2: Community Alliance with Family Farmers Budget												
		Direct Labor Hours	Salary	Benefits	Travel	Supplies	Other	Service Contracts	Overhead 28%	Equipment	Construction	TOTAL COST
YEAR	TASK											
Task 1	Data Collection	360	\$5,268	\$1,666	\$124	\$200	\$1,000	\$13,815	\$6,186	\$0		\$28,279
	1.1 Conduct baseline information and practices survey	180	\$4,708	\$1,507	\$62	\$100	\$500	\$6,908	\$3,860			\$17,644
	1.2 Conduct survey of barriers to implementation	180	\$560	\$179	\$62	\$100	\$500	\$6,908	\$2,327			\$10,635
Task 2	Planning and Project Management	608	\$14,456	\$4,626	\$124	\$100	\$150	\$16,400	\$10,040	\$0		\$45,896
	2.1 Establish Management Teams	160	\$3,880	\$1,242	\$0	\$0	\$50	\$7,840	\$3,643			\$16,655
	2.2 Hold Quarterly Management Team Meetings	248	\$5,816	\$1,861	\$124	\$100	\$50	\$4,920	\$3,604			\$16,475
	2.3 Develop Workplans	200	\$4,760	\$1,523	\$0	\$0	\$50	\$3,640	\$2,792			\$12,766
Task 3	Technical Assistance	690	\$16,382	\$5,242	\$620	\$100	\$150	\$24,640	\$13,198	\$0		\$60,332
	3.1 Recruit Landowners	137	\$3,279	\$1,049	\$0	\$0	\$50	\$2,560	\$1,943			\$9,882
	3.3 Develop Farm Plans for each Project Area	207	\$4,849	\$1,552	\$0	\$100	\$50	\$4,360	\$3,055			\$13,966
	3.3 Farm Site Visits	347	\$8,253	\$2,641	\$620	\$0	\$60	\$17,720	\$8,200			\$37,484
Task 4	Demonstration Activities	24	\$670	\$214	\$0	\$3,000	\$0	\$49,275	\$14,885	\$0		\$68,044
	4.1 Create Plan for Clean Up and Restoration	6	\$168	\$54		\$0		\$9,030	\$2,590			\$11,841
	4.2 Hold Stakeholder meetings	6	\$168	\$54		\$0		\$8,460	\$2,436			\$11,137
	4.3 Site Preparation and Restoration	6	\$168	\$54		\$0		\$15,993	\$4,540			\$20,754
	4.4 Site Revegetation	6	\$168	\$54		\$3,000		\$15,773	\$5,318			\$24,312
Task 5	Educational Events	816	\$20,016	\$6,405	\$500	\$600	\$3,648	\$8,664	\$11,153	\$0		\$50,986
	5.1 Hold 6 Events (Solano County)	360	\$8,952	\$2,865	\$250	\$300	\$1,824	\$8,664	\$6,399			\$29,254
	5.2 Hold 6 Events (Merced County)	456	\$11,064	\$3,540	\$250	\$300	\$1,824	\$0	\$4,764			\$21,732
Task 6	Publications and Outreach	1718	\$41,004	\$13,121	\$500	\$6,000	\$6,000	\$4,360	\$19,876	\$0		\$90,861
	6.1 Media Campaign and Public Relations	414	\$9,899	\$3,168	\$167	\$1,500	\$1,500	\$1,090	\$4,850			\$22,174
	6.2 Outreach for Events	414	\$9,899	\$3,168	\$167	\$1,500	\$1,500	\$1,090	\$4,850			\$22,174
	6.3 Community Relations Activities	414	\$9,899	\$3,168	\$167	\$1,500	\$1,500	\$1,090	\$4,850			\$22,174
	6.4 Publications, Lists and Media Materials	478	\$11,307	\$3,618	\$0	\$1,500	\$1,500	\$1,090	\$5,324			\$24,339
Task 7	Evaluation and Assessment	759	\$18,055	\$5,778	\$0	\$200	\$300	\$6,090	\$8,518	\$0		\$38,941
	7.1 Data Entry	136	\$2,944	\$942		\$0	\$0	\$0	\$1,088			\$4,974
	7.2 Database Management	144	\$3,288	\$1,052		\$200	\$0	\$0	\$1,271			\$5,811
	7.3 Evaluation of Program Events	167	\$4,119	\$1,318		\$0	\$50	\$1,218	\$1,877			\$8,882
	7.4 Data Compilation	120	\$2,760	\$883		\$0	\$50	\$962	\$1,303			\$5,959
	7.5 Survey Analysis	192	\$4,944	\$1,582		\$0	\$200	\$3,910	\$2,978			\$13,614
Task 8	Reporting	1040	\$29,588	\$9,468	\$0	\$0	\$50	\$4,484	\$12,205	\$0		\$55,796
	8.1 Monthly Billings	72	\$1,992	\$637			\$13	\$1,280	\$1,098			\$5,020
	8.2 Quarterly narrative reports	328	\$9,316	\$2,981			\$13	\$1,218	\$3,788			\$17,316
	8.3 Quarterly budget reports	312	\$8,964	\$2,868			\$13	\$768	\$3,632			\$16,145
	8.4 Annual Report	328	\$9,316	\$2,981			\$13	\$1,218	\$3,788			\$17,315
Total Cost Year 1			6015	\$145,439	\$46,540	\$1,868	\$10,200	\$11,298	\$127,728	\$96,060	\$0	\$0

[illegible]

[illegible]

Table 1.3: Community Alliance with Family Farmers Budget by Task and Personnel (Direct Labor)

	Team Member Classification	Tisher E. Director	Westcott D. Director	Sams D. Director	Knox D. Director	Cady Coordinator	Ohmart Coordinator	Stockwin Coordinator	Dia Coordinator	Van Epen Coordinator	Hill Coordinator	Carroll Coordinator	Huff Coordinator
	Hourly Rate	\$46	\$35	\$35	\$35	\$31	\$23	\$23	\$19	\$26	\$22	\$22	\$22
YEAR 1 TASKS													
1. Data Collection		\$0	\$0	\$0	\$1,120	\$1,860	\$0	\$0	\$0	\$0	\$0	\$528	\$880
1.1 Conduct baseline information and practices survey		\$0	\$0	\$0	\$560	\$1,860	\$0	\$0	\$0	\$0	\$0	\$528	\$880
1.2 Conduct survey of barriers to implementation		\$0	\$0	\$0	\$560	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2. Planning and Project Management		\$0	\$0	\$0	\$0	\$3,720	\$0	\$0	\$0	\$0	\$0	\$1,936	\$6,160
2.1 Establish Management Teams		\$0	\$0	\$0	\$0	\$1,240	\$0	\$0	\$0	\$0	\$0	\$0	\$1,760
2.2 Hold Quarterly Management Team Meetings		\$0	\$0	\$0	\$0	\$1,240	\$0	\$0	\$0	\$0	\$0	\$1,056	\$2,640
2.3 Develop Workplans		\$0	\$0	\$0	\$0	\$1,240	\$0	\$0	\$0	\$0	\$0	\$880	\$1,760
3. Technical Assistance		\$0	\$0	\$0	\$700	\$3,348	\$0	\$0	\$0	\$0	\$0	\$3,872	\$7,040
3.1 Recruit Landowners		\$0	\$0	\$0	\$233	\$744	\$0	\$0	\$0	\$0	\$0	\$0	\$1,760
3.3 Develop Farm Plans for each Project Area		\$0	\$0	\$0	\$233	\$744	\$0	\$0	\$0	\$0	\$0	\$1,760	\$3,520
3.3 Farm Site Visits		\$0	\$0	\$0	\$233	\$1,860	\$0	\$0	\$0	\$0	\$0	\$2,112	\$3,520
4. Demonstration Activities		\$0	\$0	\$0	\$140	\$310	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4.1 Create Plan for Clean Up and Restoration		\$0	\$0	\$0	\$35	\$78	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4.2 Hold Stakeholder meetings		\$0	\$0	\$0	\$35	\$78	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4.3 Site Preparation and Restoration		\$0	\$0	\$0	\$35	\$78	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4.4 Site Revegetation		\$0	\$0	\$0	\$35	\$78	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5. Educational Events		\$0	\$0	\$0	\$1,680	\$5,952	\$0	\$0	\$0	\$0	\$1,056	\$2,112	\$4,224
5.1 Hold 6 Events (Solano County)		\$0	\$0	\$0	\$840	\$2,976	\$0	\$0	\$0	\$0	\$1,056	\$2,112	\$4,224
5.2 Hold 6 Events (Merced County)		\$0	\$0	\$0	\$840	\$2,976	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6. Publications and Outreach		\$0	\$0	\$6,440	\$0	\$0	\$0	\$16,560	\$3,952	\$4,680	\$0	\$0	\$0
6.1 Media Campaign and Public Relations		\$0	\$0	\$1,610	\$0	\$0	\$0	\$4,140	\$988	\$1,170	\$0	\$0	\$0
6.2 Outreach for Events		\$0	\$0	\$1,610	\$0	\$0	\$0	\$4,140	\$988	\$1,170	\$0	\$0	\$0
6.3 Community Relations Activities		\$0	\$0	\$1,610	\$0	\$0	\$0	\$4,140	\$988	\$1,170	\$0	\$0	\$0
6.4 Publications, Lists and Media Materials		\$0	\$0	\$1,610	\$0	\$0	\$0	\$4,140	\$988	\$1,170	\$0	\$0	\$0
7. Evaluation and Assessment		\$230	\$0	\$175	\$350	\$3,952	\$115	\$115	\$0	\$0	\$66	\$924	\$1,100
7.1 Data Entry		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7.2 Database Management		\$0	\$0	\$0	\$0	\$496	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7.3 Evaluation of Program Events		\$230	\$0	\$175	\$350	\$496	\$115	\$115	\$0	\$0	\$66	\$924	\$1,100
7.4 Data Compilation		\$0	\$0	\$0	\$0	\$496	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7.5 Survey Analysis		\$0	\$0	\$0	\$0	\$2,480	\$0	\$0	\$0	\$0	\$0	\$704	\$880
8. Reporting		\$1,656	\$1,680	\$3,360	\$3,360	\$5,952	\$6,900	\$0	\$0	\$0	\$0	\$704	\$0
8.1 Monthly Billings		\$0	\$420	\$1,120	\$1,120	\$1,984	\$2,300	\$0	\$0	\$0	\$0	\$352	\$0
8.2 Quarterly narrative reports		\$552	\$420	\$1,120	\$1,120	\$1,984	\$2,300	\$0	\$0	\$0	\$0	\$352	\$0
8.3 Quarterly budget reports		\$552	\$420	\$1,120	\$1,120	\$1,984	\$2,300	\$0	\$0	\$0	\$0	\$352	\$0
8.4 Annual Report		\$552	\$420	\$1,120	\$1,120	\$1,984	\$2,300	\$0	\$0	\$0	\$0	\$352	\$0
Year 1 Personnel Budget Totals		\$1,886	\$1,680	\$9,975	\$7,350	\$25,110	\$7,015	\$16,675	\$3,952	\$4,680	\$1,122	\$10,076	\$19,404

[illegible]

YEAR II TASKS														
2. Planning and Project Management	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2.2 Hold Quarterly Management Team Meetings	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3. Technical Assistance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3.3 Farm Site Visits	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4. Demonstration Activities	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4.1 Create Plan for Clean Up and Restoration	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4.2 Hold Stakeholder meetings	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4.3 Site Preparation and Restoration	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4.4 Site Revegetation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5. Educational Events	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5.1 Hold 6 Events (Solano County)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5.2 Hold 6 Events (Merced County)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5.3 Hold Watershed Fair (Solano County)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5.4 Hold Watershed Fair (Merced County)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6. Publications and Outreach	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6.1 Media Campaign and Public Relations	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6.2 Outreach for Events	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6.3 Community Relations Activities	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6.4 Publications, Lists and Media Materials	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7. Evaluation and Assessment	\$230	\$0	\$0	\$175	\$350	\$2,480	\$115	\$115	\$0	\$0	\$0	\$0	\$0	\$0
7.1 Data Entry	\$0	\$0	\$0	\$0	\$0	\$496	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7.2 Database Management	\$0	\$0	\$0	\$0	\$0	\$496	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7.3 Evaluation of Program Events	\$230	\$0	\$0	\$175	\$350	\$496	\$115	\$115	\$0	\$0	\$0	\$0	\$0	\$0
7.4 Data Compilation	\$0	\$0	\$0	\$0	\$0	\$496	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7.5 Survey Analysis	\$0	\$0	\$0	\$0	\$0	\$496	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8. Reporting	\$1,656	\$630	\$3,360	\$3,360	\$5,952	\$6,900	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8.1 Monthly Billings	\$0	\$210	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8.2 Quarterly narrative reports	\$552	\$140	\$1,120	\$1,120	\$1,984	\$2,300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8.3 Quarterly budget reports	\$552	\$140	\$1,120	\$1,120	\$1,984	\$2,300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8.4 Annual Report	\$352	\$140	\$1,120	\$1,120	\$1,984	\$2,300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Year II Personnel Budget Totals	\$1,886	\$630	\$9,975	\$4,783	\$15,314	\$7,015	\$16,675	\$3,952	\$4,680	\$902	\$3,388	\$11,836		

[illegible]

YEAR III TASKS																
2. Planning and Project Management	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2.2 Hold Quarterly Management Team Meetings	\$0	\$0	\$0	\$0	\$0	\$827	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$704	\$4,224
3. Technical Assistance	\$0	\$0	\$0	\$0	\$0	\$233	\$496	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,112	\$2,112
3.3 Farm Site Visits	\$0	\$0	\$0	\$0	\$233	\$496	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,112	\$2,112
5. Educational Events	\$0	\$0	\$0	\$0	\$700	\$3,472	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,188	\$6,280
5.1 Hold 6 Events (Solano County)	\$0	\$0	\$0	\$0	\$175	\$868	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5.2 Hold 6 Events (Merced County)	\$0	\$0	\$0	\$0	\$175	\$868	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$528	\$1,760
5.3 Hold Watershed Fair (Solano County)	\$0	\$0	\$0	\$0	\$175	\$868	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5.4 Hold Watershed Fair (Merced County)	\$0	\$0	\$0	\$0	\$175	\$868	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$660	\$3,520
6. Publications and Outreach	\$0	\$0	\$8,400	\$0	\$0	\$0	\$0	\$0	\$15,640	\$3,952	\$5,096	\$0	\$0	\$0	\$0	\$0
6.1 Media Campaign and Public Relations	\$0	\$0	\$1,400	\$0	\$0	\$0	\$0	\$0	\$2,760	\$790	\$624	\$0	\$0	\$0	\$0	\$0
6.2 Outreach for Events	\$0	\$0	\$1,400	\$0	\$0	\$0	\$0	\$0	\$2,760	\$790	\$624	\$0	\$0	\$0	\$0	\$0
6.3 Community Relations Activities	\$0	\$0	\$1,400	\$0	\$0	\$0	\$0	\$0	\$2,760	\$790	\$624	\$0	\$0	\$0	\$0	\$0
6.4 Publications, Lists and Media Materials	\$0	\$0	\$1,400	\$0	\$0	\$0	\$0	\$0	\$2,760	\$790	\$624	\$0	\$0	\$0	\$0	\$0
6.5 Workbook	\$0	\$0	\$2,800	\$0	\$0	\$0	\$0	\$0	\$4,600	\$790	\$2,600	\$0	\$0	\$0	\$0	\$0
7. Evaluation and Assessment	\$230	\$0	\$175	\$350	\$2,480	\$115	\$115	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$220	\$220
7.1 Data Entry	\$0	\$0	\$0	\$0	\$496	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7.2 Database Management	\$0	\$0	\$0	\$0	\$496	\$115	\$115	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7.3 Evaluation of Program Events	\$230	\$0	\$175	\$350	\$496	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$220	\$220
7.4 Data Compilation	\$0	\$0	\$0	\$0	\$496	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7.5 Survey Analysis	\$0	\$0	\$0	\$0	\$496	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8. Reporting	\$1,656	\$630	\$3,360	\$3,360	\$5,952	\$6,900	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8.1 Monthly Billings	\$0	\$210	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8.2 Quarterly narrative reports	\$562	\$140	\$1,120	\$1,120	\$1,984	\$2,300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8.3 Quarterly Budget reports	\$562	\$140	\$1,120	\$1,120	\$1,984	\$2,300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8.5 Final Report	\$562	\$140	\$1,120	\$1,120	\$1,984	\$2,300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Year III Personnel Budget Totals	\$1,886	\$630	\$11,935	\$4,643	\$13,227	\$7,015	\$15,755	\$3,952	\$5,096	\$1,254	\$3,036	\$11,836				
Total 3 Year Budget	\$5,658	\$2,940	\$31,885	\$16,777	\$53,651	\$27,045	\$49,105	\$11,856	\$14,456	\$3,278	\$16,500	\$43,076				

[illegible]

Table 1.4: Community Alliance with Family Farmers Hours by Task and Personnel

Team Member	Tisher	Westcott	Sams	Knox	Cady	Ormart	Stockwin	Dia	Van Epen	Hill	Carroll	Huff
Team Member	E. Director	D. Director	D. Director	D. Director	Coordinator	Coordinator	Coordinator	Coordinator	Coordinator	Coordinator	Coordinator	Coordinator
Classification												
Hourly Rate	\$46	\$35	\$35	\$35	\$31	\$23	\$23	\$19	\$26	\$22	\$22	\$22
YEAR 1 TASKS												
1. Data Collection		0.0			32.0	120.0	0.0	0.0	0.0	0.0	48.0	80.0
1.1. Conduct baseline information and practices survey					16.0	60.0					24.0	40.0
1.2. Conduct survey of barriers to implementation					16.0	60.0					24.0	40.0
2. Planning and Project Management		0.0	0.0	0.0	0.0	120.0	0.0	0.0	0.0	0.0	88.0	280.0
2.1. Establish Management Teams						40.0					0.0	80.0
2.2. Hold Quarterly Management Team Meetings						40.0					48.0	120.0
2.3. Develop Workplans						40.0					40.0	80.0
3. Technical Assistance		0.0	0.0	0.0	20.0	108.0	0.0	0.0	0.0	0.0	176.0	320.0
3.1. Recruit Landowners (8-10 owners/region-16-20 total)					6.7	24.0					0.0	80.0
3.3. Develop 8-10 Farm Plans for each Project Area					6.7	24.0					80.0	80.0
3.3. Farm Site Visits (MT annually, staff only)					6.7	60.0					96.0	160.0
4. Demonstration Activities		0.0	0.0	0.0	4.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0
4.1. Create Plan for Clean Up and Restoration					1.0	2.5						
4.2. Hold Stakeholder meetings					1.0	2.5						
4.3. Site Preparation and Restoration					1.0	2.5						
4.4. Site Revegetation					1.0	2.5						
5. Educational Events		0.0	0.0	0.0	48.0	192.0	0.0	0.0	0.0	48.0	96.0	192.0
5.1. Hold 6 Events (Solano County)					24.0	96.0				0.0	0.0	0.0
5.2. Hold 6 Events (Maricopa County)					24.0	96.0				48.0	96.0	192.0
6. Publications and Outreach		0.0	0.0	0.0	0.0	0.0	0.0	720.0	208.0	180.0	0.0	0.0
6.1. Media Campaign and Public Relations								180.0	52.0	45.0		
6.2. Outreach for Events								180.0	52.0	45.0		
6.3. Community Relations Activities								180.0	52.0	45.0		
6.4. Publications, Lists and Media Materials								180.0	52.0	45.0		
7. Evaluation and Assessment		5.0	0.0	5.0	10.0	128.0	5.0	5.0	0.0	0.0	3.0	42.0
7.1. Data Entry		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.2. Database Management		0.0	0.0	0.0	0.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0
7.3. Evaluation of Program Events		5.0	5.0	5.0	10.0	16.0	5.0	5.0	0.0	3.0	10.0	10.0
7.4. Data Compilation		0.0	0.0	0.0	0.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5. Survey Analysis		0.0	0.0	0.0	0.0	80.0	0.0	0.0	0.0	0.0	32.0	40.0
8. Reporting		38.0	48.0	96.0	96.0	192.0	300.0	0.0	0.0	0.0	32.0	0.0
8.1. Monthly Billings		0.0	12.0	0.0	0.0	0.0	0.0				0.0	
8.2. Quarterly narrative reports		12.0	12.0	32.0	32.0	64.0	100.0				16.0	
8.3. Quarterly budget reports		12.0	12.0	32.0	32.0	64.0	100.0				0.0	
8.4. Annual Report		12.0	12.0	32.0	32.0	64.0	100.0				16.0	
Year 1 Personnel Totals	41.0	48.0	285.0	210.0	870.0	305.0	725.0	208.0	180.0	51.0	482.0	922.0

					vacant				
Murray	Rice	Okrongly	Espley	Comm	Wellen	Oldfield	O'Guinn	Hours	
Coordinator	Manager	Assistant	Assistant	Coordinator	Admin	Admin	Admin	by Task	
	\$22	\$22	\$19	\$22	\$22	\$30	\$19	\$22	

YEAR II TASKS																
2. Planning and Project Management																
2.2. Hold Quarterly Management Team Meetings	0.0	0.0	0.0	0.0	40.0	0.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	48.0	192.0	
3. Technical Assistance																
3.3. Farm Site Visits	0.0	0.0	0.0	6.7	60.0	0.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	96.0	96.0	
4. Demonstration Activities																
4.1. Create Plan for Clean Up and Restoration	0.0	0.0	0.0	4.0	10.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4.2. Hold Stakeholder meetings				1.0	2.5		2.5									
4.3. Site Preparation and Restoration				1.0	2.5		2.5									
4.4. Site Revegetation				1.0	2.5		2.5									
5. Educational Events																
5.1. Hold 6 Events (Solano County)	0.0	0.0	0.0	20.0	112.0	0.0	112.0	0.0	0.0	0.0	0.0	38.0	0.0	0.0	240.0	
5.2. Hold 6 Events (Merced County)				5.0	28.0		28.0					8.0			80.0	
5.3. Hold Watershed Faire (Solano County)				5.0	28.0		28.0					0.0			0.0	
5.4. Hold Watershed Faire (Merced County)				5.0	28.0		28.0					30.0			160.0	
6. Publications and Outreach																
6.1. Media Campaign and Public Relations	0.0	0.0	184.0	0.0	0.0	0.0	0.0	0.0	720.0	208.0	180.0	0.0	0.0	0.0	0.0	
6.2. Outreach for Events			46.0						180.0	52.0	45.0					
6.3. Community Relations Activities			46.0						180.0	52.0	45.0					
6.4. Publications, Lists and Media Materials			46.0						180.0	52.0	45.0					
7. Evaluation and Assessment																
7.1. Data Entry	5.0	0.0	5.0	10.0	80.0	5.0	5.0	0.0	5.0	0.0	0.0	3.0	10.0	10.0	10.0	
7.2. Database Management	0.0	0.0	0.0	0.0	16.0	0.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7.3. Evaluation of Program Events	5.0	0.0	5.0	10.0	16.0	5.0	5.0	0.0	5.0	0.0	0.0	3.0	10.0	10.0	10.0	
7.4. Data Compilation	0.0	0.0	0.0	0.0	16.0	0.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7.5. Survey Analysis	0.0		0.0	0.0	16.0	0.0	16.0	0.0	0.0			0.0	0.0	0.0	0.0	
8. Reporting																
8.1. Monthly Billings	36.0	18.0	96.0	96.0	192.0	300.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8.2. Quarterly narrative reports	12.0	4.0	32.0	32.0	64.0	100.0										
8.3. Quarterly budget reports	12.0	4.0	32.0	32.0	64.0	100.0										
8.4. Annual Report	12.0	4.0	32.0	32.0	64.0	100.0										
Year II Personnel Totals	41.0	18.0	285.0	136.7	494.0	305.0	725.0	208.0	180.0	41.0	154.0	538.0				

40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	320.0
40.0									320.0
16.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	278.0
16.0		3.3							278.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	240.0
2.5									6.0
2.5									6.0
2.5									6.0
48.0	0.0	64.0	120.0	0.0	0.0	0.0	0.0	0.0	618.0
12.0		24.0	40.0						109.0
12.0		24.0	0.0						167.0
12.0		8.0	80.0						133.0
12.0		8.0	0.0						243.0
64.0	272.0	0.0	0.0	90.0	0.0	0.0	0.0	0.0	1718.0
	68.0			22.5					413.5
	68.0			22.5					413.5
64.0	68.0			22.5					413.5
									477.5
400.0	0.0	10.0	10.0	0.0	0.0	0.0	0.0	0.0	553.0
80.0		2.0	0.0						98.0
80.0		2.0	0.0						98.0
80.0		2.0	10.0						161.0
80.0		2.0	0.0						98.0
80.0		2.0	0.0						98.0
96.0	0.0	0.0	0.0	0.0	96.0	24.0	24.0		978.0
0.0					36.0	12.0	12.0		66.0
32.0					20.0	4.0	4.0		304.0
32.0					20.0	4.0	4.0		304.0
32.0					20.0	4.0	4.0		304.0
674.0	272.0	77.3	130.0	90.0	96.0	24.0	24.0	4489.0	

YEAR III TASKS																
2. Planning and Project Management																
2.2 Hold Quarterly Management Team Meetings	0.0	0.0	0.0	0.0	26.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.0	192.0	
					26.7									32.0	192.0	
3. Technical Assistance																
3.3 Farm Site Visits	0.0	0.0	0.0	6.7	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.0	96.0	
					16.0									96.0	96.0	
5. Educational Events																
5.1 Hold 6 Events (Solano County)	0.0	0.0	0.0	20.0	112.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.0	0.0	240.0	
5.2 Hold 6 Events (Merced County)				5.0	28.0								0.0	0.0	0.0	
5.3 Hold Watershed Faire (Solano County)				5.0	28.0								0.0	0.0	0.0	
5.4 Hold Watershed Faire (Merced County)				5.0	28.0								0.0	0.0	0.0	
													30.0		160.0	
6. Publications and Outreach																
6.1 Media Campaign and Public Relations	0.0	0.0	240.0	0.0	0.0	0.0	0.0	680.0	208.0	196.0	0.0	0.0	0.0	0.0	0.0	
6.2 Outreach for Events			40.0					120.0	41.6	24.0						
6.3 Community Relations Activities			40.0					120.0	41.6	24.0						
6.4 Publications, Lists and Media Materials			40.0					120.0	41.6	24.0						
6.5 Workbook			80.0					200.0	41.6	100.0						
7. Evaluation and Assessment																
7.1 Data Entry	5.0	0.0	5.0	10.0	80.0	5.0	5.0	5.0	0.0	0.0	0.0	3.0	10.0	10.0	10.0	
7.2 Database Management	0.0	0.0	0.0	0.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7.3 Evaluation of Program Events	5.0	0.0	5.0	10.0	16.0	5.0	5.0	5.0	0.0	0.0	0.0	3.0	10.0	10.0	10.0	
7.4 Data Compilation	0.0	0.0	0.0	0.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7.5 Survey Analysis	0.0	0.0	0.0	0.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8. Reporting																
8.1 Monthly Billings	36.0	18.0	96.0	96.0	192.0	300.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8.2 Quarterly narrative reports	0.0	6.0	0.0	0.0	0.0	0.0										
8.3 Quarterly budget reports	12.0	4.0	32.0	32.0	64.0	100.0										
8.5 Final Report	12.0	4.0	32.0	32.0	64.0	100.0										
Year III Personnel Totals	41.0	18.0	341.0	132.7	426.7	305.0	685.0	208.0	196.0	57.0	138.0	538.0				
total hours 3 years	123.0	84.0	911.0	479.3	1790.7	915.0	2135.0	624.0	556.0	149.0	774.0	1998.0				

6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	257.3
6.7									257.3
8.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	226.0
8.0									226.0
24.0	0.0	64.0	120.0	0.0	0.0	0.0	0.0	0.0	594.0
6.0		24.0	40.0						103.0
6.0		24.0	0.0						167.0
6.0		8.0	80.0						127.0
6.0		8.0	0.0						237.0
0.0	266.0	0.0	0.0	208.0	0.0	0.0	0.0	0.0	1798.0
	24.0			41.6					291.2
	24.0			41.6					291.2
	24.0			41.6					291.2
	24.0			41.6					291.2
	170.0			41.6					633.2
200.0	0.0	10.0	10.0	0.0	0.0	0.0	0.0	0.0	353.0
40.0		2.0	0.0						58.0
40.0		2.0	0.0						58.0
40.0		2.0	10.0						121.0
40.0		2.0	0.0						58.0
40.0		2.0	0.0						58.0
48.0	0.0	0.0	0.0	0.0	96.0	24.0	24.0	930.0	66.0
16.0					36.0	12.0	12.0	288.0	4.0
16.0					20.0	4.0	4.0	288.0	4.0
16.0					20.0	4.0	4.0	288.0	4.0
286.7	266.0	77.3	130.0	208.0	96.0	24.0	24.0	4158.3	
1936.7	810.0	300.7	318.0	388.0	288.0	72.0	72.0	14662.3	

Table 1.5: Subcontractor Budget by Task and Personnel										
Team Member	Classification	Gibbs consultant	Morris consultant	Survey consultant	Mgmt Team consultant	Engineering consultant	Site Prep consultant	Site Reveg consultant	Budget by Task	
	*Hourly Rate	\$32	\$45	\$65	\$75	\$100	\$130	\$130		
YEAR 1 TASKS										
1. Data Collection		\$3,840	\$3,375	\$6,600	\$0	\$0	\$0	\$0	\$13,815	
1.1 Conduct baseline information and practices survey		\$1,920	\$1,688	\$3,300	\$0	\$0	\$0	\$0	\$6,908	
1.2 Conduct survey of barriers to implementation		\$1,920	\$1,688	\$3,300	\$0	\$0	\$0	\$0	\$6,908	
2. Planning and Project Management		\$8,960	\$3,240	\$0	\$4,200	\$0	\$0	\$0	\$16,400	
2.1 Establish Management Teams		\$2,560	\$1,080	\$0	\$4,200	\$0	\$0	\$0	\$7,840	
2.2 Hold Quarterly Management Team Meetings		\$3,840	\$1,080	\$0	\$0	\$0	\$0	\$0	\$4,920	
2.3 Develop Workplans		\$2,560	\$1,080	\$0	\$0	\$0	\$0	\$0	\$3,640	
3. Technical Assistance		\$10,240	\$5,400	\$0	\$9,000	\$0	\$0	\$0	\$24,640	
3.1 Recruit Landowners		\$2,560	\$0	\$0	\$0	\$0	\$0	\$0	\$2,560	
3.2 Develop Farm Plans for each Project Area		\$2,560	\$1,800	\$0	\$0	\$0	\$0	\$0	\$4,360	
3.3 Farm Site Visits		\$5,120	\$3,600	\$0	\$9,000	\$0	\$0	\$0	\$17,720	
4. Demonstration Activities:		\$6,400	\$19,575	\$0	\$0	\$2,500	\$10,400	\$10,400	\$49,275	
4.1 Create Plan for Clean Up and Restoration		\$1,280	\$6,750	\$0	\$0	\$1,000	\$0	\$0	\$9,030	
4.2 Hold Stakeholder meetings		\$1,280	\$7,200	\$0	\$0	\$0	\$0	\$0	\$8,480	
4.3 Site Preparation and Restoration		\$1,280	\$2,813	\$0	\$0	\$1,500	\$10,400	\$0	\$15,993	
4.4 Site Revegetation		\$2,560	\$2,813	\$0	\$0	\$0	\$0	\$10,400	\$15,773	
5. Educational Events		\$6,144	\$2,520	\$0	\$0	\$0	\$0	\$0	\$8,664	
5.1 Hold 6 Events (Solano County)		\$6,144	\$2,520	\$0	\$0	\$0	\$0	\$0	\$8,664	
5.2 Hold 6 Events (Merced County)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
6. Publications and Outreach		\$2,560	\$1,800	\$0	\$0	\$0	\$0	\$0	\$4,360	
6.1 Media Campaign and Public Relations		\$640	\$450	\$0	\$0	\$0	\$0	\$0	\$1,090	
6.2 Outreach for Events		\$640	\$450	\$0	\$0	\$0	\$0	\$0	\$1,090	
6.3 Community Relations Activities		\$640	\$450	\$0	\$0	\$0	\$0	\$0	\$1,090	
6.4 Publications, Lists and Media Materials		\$640	\$450	\$0	\$0	\$0	\$0	\$0	\$1,090	
7. Evaluation and Assessment		\$3,840	\$2,250	\$0	\$0	\$0	\$0	\$0	\$6,090	
7.1 Data Entry		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
7.2 Database Management		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
7.3 Evaluation of Program Events		\$768	\$450	\$0	\$0	\$0	\$0	\$0	\$1,218	
7.4 Data Compilation		\$512	\$450	\$0	\$0	\$0	\$0	\$0	\$962	
7.5 Survey Analysis		\$2,560	\$1,350	\$0	\$0	\$0	\$0	\$0	\$3,910	
8. Reporting		\$3,584	\$900	\$0	\$0	\$0	\$0	\$0	\$4,484	
8.1 Monthly Billings		\$1,280	\$0	\$0	\$0	\$0	\$0	\$0	\$1,280	
8.2 Quarterly narrative reports		\$768	\$450	\$0	\$0	\$0	\$0	\$0	\$1,218	
8.3 Quarterly budget reports		\$768	\$0	\$0	\$0	\$0	\$0	\$0	\$768	
8.4 Annual report		\$768	\$450	\$0	\$0	\$0	\$0	\$0	\$1,218	
Year 1 Personnel Budget Totals		\$45,568	\$39,060	\$6,600	\$13,200	\$2,500	\$10,400	\$10,400	\$127,728	

Team Member	Classification	Gibbs consultant	Morris consultant	Survey consultant	Mgmt Team consultant	Engineering consultant	Site Prep consultant	Site Reveg consultant	Budget by Task
	Hourly Rate	\$32	\$45	\$55	\$75	\$100	\$130	\$130	
YEAR II TASKS									
2. Planning and Project Management		\$3,840	\$1,080	\$0	\$0	\$0	\$0	\$0	\$4,920
2.2 Hold Quarterly Management Team Meetings		\$3,840	\$1,080	\$0	\$0	\$0	\$0	\$0	\$4,920
3. Technical Assistance		\$5,120	\$1,800	\$0	\$6,000	\$0	\$0	\$0	\$12,920
3.3 Farm Site Visits		\$5,120	\$1,800	\$0	\$6,000	\$0	\$0	\$0	\$12,920
4. Demonstration Activities		\$6,400	\$22,140	\$0	\$0	\$2,500	\$25,610	\$2,080	\$58,730
4.1 Create Plan for Clean Up and Restoration		\$1,280	\$6,760	\$0	\$0	\$1,000	\$0	\$0	\$9,030
4.2 Hold Stakeholder meetings		\$1,280	\$8,640	\$0	\$0	\$0	\$0	\$0	\$9,920
4.3 Site Preparation and Restoration		\$1,280	\$3,375	\$0	\$0	\$1,500	\$25,610	\$0	\$31,765
4.4 Site Revegetation		\$2,560	\$3,375	\$0	\$0	\$0	\$0	\$2,080	\$8,015
5. Educational Events		\$8,704	\$2,700	\$0	\$0	\$0	\$0	\$0	\$11,404
5.1 Hold 6 Events (Solano County)		\$6,144	\$1,800	\$0	\$0	\$0	\$0	\$0	\$7,944
5.2 Hold 6 Events (Merced County)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5.3 Hold Watershed Faire (Solano County)		\$2,560	\$900	\$0	\$0	\$0	\$0	\$0	\$3,460
5.4 Hold Watershed Faire (Merced County)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6. Publications and Outreach		\$2,560	\$1,900	\$0	\$0	\$0	\$0	\$0	\$4,360
6.1 Media Campaign and Public Relations		\$640	\$450	\$0	\$0	\$0	\$0	\$0	\$1,090
6.2 Outreach for Events		\$640	\$450	\$0	\$0	\$0	\$0	\$0	\$1,090
6.3 Community Relations Activities		\$640	\$450	\$0	\$0	\$0	\$0	\$0	\$1,090
6.4 Publications, Lists and Media Materials		\$640	\$450	\$0	\$0	\$0	\$0	\$0	\$1,090
7. Evaluation and Assessment		\$1,920	\$0	\$0	\$0	\$0	\$0	\$0	\$1,920
7.1 Data Entry		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7.2 Database Management		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7.3 Evaluation of Program Events		\$320	\$0	\$0	\$0	\$0	\$0	\$0	\$320
7.4 Data Completion		\$320	\$0	\$0	\$0	\$0	\$0	\$0	\$320
7.5 Survey Analysis		\$1,280	\$0	\$0	\$0	\$0	\$0	\$0	\$1,280
8. Reporting		\$256	\$1,080	\$0	\$0	\$0	\$0	\$0	\$1,336
8.1 Monthly Billings		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8.2 Quarterly narrative reports		\$0	\$360	\$0	\$0	\$0	\$0	\$0	\$360
8.3 Quarterly budget reports		\$0	\$360	\$0	\$0	\$0	\$0	\$0	\$360
8.4 Annual report		\$256	\$360	\$0	\$0	\$0	\$0	\$0	\$616
Year II Personnel Budget Totals		\$28,800	\$30,600	\$0	\$6,000	\$2,500	\$25,610	\$2,080	\$95,590

Team Member	Classification	Gibbs	Morris	Survey	Mgmt Team	Engineering	Site Prep	Site Reveg	Budget
	Hourly Rate	consultant \$32	consultant \$45	consultant \$55	consultant \$75	consultant \$100	consultant \$130	consultant \$130	by Task
YEAR III TASKS									
2. Planning and Project Management		\$2,560	\$1,080	\$0	\$0	\$0	\$0	\$0	\$3,640
2.2 Hold Quarterly Management Team Meetings		\$2,560	\$1,080	\$0	\$0	\$0	\$0	\$0	\$3,640
3. Technical Assistance		\$5,120	\$3,600	\$0	\$6,000	\$0	\$0	\$0	\$14,720
3.3 Farm Site Visits		\$5,120	\$3,600	\$0	\$6,000	\$0	\$0	\$0	\$14,720
5. Educational Events		\$8,704	\$3,600	\$0	\$0	\$0	\$0	\$0	\$12,304
5.1 Hold 6 Events (Solano County)		\$6,144	\$1,800	\$0	\$0	\$0	\$0	\$0	\$7,944
5.2 Hold 6 Events (Merced County)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
5.3 Hold Watershed Faire (Solano County)		\$2,560	\$1,800	\$0	\$0	\$0	\$0	\$0	\$4,360
5.4 Hold Watershed Faire (Merced County)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6. Publications and Outreach		\$5,120	\$3,150	\$0	\$0	\$0	\$0	\$0	\$8,270
6.1 Media Campaign and Public Relations		\$640	\$450	\$0	\$0	\$0	\$0	\$0	\$1,090
6.2 Outreach for Events		\$640	\$450	\$0	\$0	\$0	\$0	\$0	\$1,090
6.3 Community Relations Activities		\$640	\$450	\$0	\$0	\$0	\$0	\$0	\$1,090
6.4 Publications, Lists and Media Materials		\$640	\$450	\$0	\$0	\$0	\$0	\$0	\$1,090
6.5 Workbook		\$2,560	\$1,350	\$0	\$0	\$0	\$0	\$0	\$3,910
7. Evaluation and Assessment		\$1,920	\$1,350	\$0	\$0	\$0	\$0	\$0	\$3,270
7.1 Data Entry		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7.2 Database Management		\$320	\$450	\$0	\$0	\$0	\$0	\$0	\$770
7.3 Evaluation of Program Events		\$320	\$450	\$0	\$0	\$0	\$0	\$0	\$770
7.4 Data Compilation		\$1,280	\$450	\$0	\$0	\$0	\$0	\$0	\$1,730
7.5 Survey Analysis		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8. Reporting		\$768	\$1,080	\$0	\$0	\$0	\$0	\$0	\$1,848
8.1 Monthly Billings		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8.2 Quarterly narrative reports		\$256	\$360	\$0	\$0	\$0	\$0	\$0	\$616
8.3 Quarterly budget reports		\$256	\$360	\$0	\$0	\$0	\$0	\$0	\$616
8.5 Final Report		\$256	\$360	\$0	\$0	\$0	\$0	\$0	\$616
Year III Personnel Budget Totals		\$24,192	\$13,860	\$0	\$6,000	\$0	\$0	\$0	\$44,052
Total 3 Year Budget		\$98,560	\$63,520	\$6,600	\$25,200	\$5,000	\$36,010	\$12,480	\$267,370

Table 1.6: Subcontractor Hours by Task and Personnel

Team Member	Classification	Gibbs consultant	Morris consultant	Survey consultant	Mgmt Team consultants	Engineering consultant	Site Prep CCC (10) ea	Site Reveg CCC (10) ea	Hours by Task
	Hourly Rate	\$32	\$45	\$55	\$75	\$100	\$130	\$130	
YEAR 1 TASKS									
1. Data Collection		120.0	75.0	120.0	0.0	0.0	0.0	0.0	315.0
1.1 Conduct baseline information and practices survey		60.0	37.5	60.0					157.5
1.2 Conduct survey of barriers to implementation		60.0	37.5	60.0					157.5
2. Planning and Project Management		280.0	72.0	0.0	56.0	0.0	0.0	0.0	408.0
2.1 Establish Management Teams		80.0	24.0		56.0				180.0
2.2 Hold Quarterly Management Team Meetings		120.0	24.0						144.0
2.3 Develop Workplans		80.0	24.0						104.0
3. Technical Assistance		320.0	120.0	0.0	120.0	0.0	0.0	0.0	560.0
3.1 Recruit Landowners (8-10 owners)		80.0	0.0		0.0				80.0
3.2 Develop Farm Plans for each Project Area		80.0	40.0		0.0				120.0
3.3 Farm Site Visits (City consultant, annual MT)		160.0	80.0		120.0				360.0
4. Demonstration Activities		200.0	435.0	0.0	0.0	25.0	80.0	80.0	820.0
4.1 Create Plan for Clean Up and Restoration		40.0	150.0			10.0	0.0	0.0	200.0
4.2 Hold Stakeholder meetings		40.0	160.0			0.0	0.0	0.0	200.0
4.3 Site Preparation and Restoration		40.0	62.5			15.0	80.0	0.0	197.5
4.4 Site Revegetation		80.0	62.5			0.0	0.0	80.0	222.5
5. Educational Events		192.0	56.0	0.0	0.0	0.0	0.0	0.0	248.0
5.1 Hold 6 Events (Solano County)		192.0	56.0						248.0
5.2 Hold 6 Events (Merced County)		0.0							0.0
6. Publications and Outreach		80.0	40.0	0.0	0.0	0.0	0.0	0.0	120.0
6.1 Media Campaign and Public Relations		20.0	10.0						30.0
6.2 Outreach for Events		20.0	10.0						30.0
6.3 Community Relations Activities		20.0	10.0						30.0
6.4 Publications, Lists and Media Materials		20.0	10.0						30.0
7. Evaluation and Assessment		120.0	50.0	0.0	0.0	0.0	0.0	0.0	170.0
7.1 Data Entry		0.0							0.0
7.2 Database Management		0.0							0.0
7.3 Evaluation of Program Events		24.0	10.0						34.0
7.4 Data Compilation		16.0	10.0						26.0
7.5 Survey Analysis		80.0	30.0						110.0
8. Reporting		112.0	20.0	0.0	0.0	0.0	0.0	0.0	132.0
8.1 Monthly Billings		40.0	0.0						40.0
8.2 Quarterly narrative reports		24.0	10.0						34.0
8.3 Quarterly budget reports		24.0	0.0						24.0
8.4 Annual report		24.0	10.0						34.0
Year 1 Personnel Totals		1424.0	868.0	120.0	176.0	25.0	80.0	80.0	2773.0

Team Member	Classification	Gibbs consultant	Morris consultant	Survey consultant	Mgmt Team consultant	Engineering consultant	Site Prep consultant	Site Reveg consultant	Hours by Task
	Hourly Rate	\$32	\$45	\$55	\$75	\$100	\$130	\$130	
YEAR II TASKS									
2. Planning and Project Management		120.0	24.0	0.0	0.0	0.0	0.0	0.0	144.0
2.2 Hold Quarterly Management Team Meetings		120.0	24.0						144.0
3. Technical Assistance		160.0	40.0	0.0	80.0	0.0	0.0	0.0	280.0
3.3 Farm Site Visits		160.0	40.0		80.0				280.0
4. Demonstration Activities		200.0	492.0	0.0	0.0	25.0	197.0	16.0	930.0
4.1 Create Plan for Clean Up and Restoration		40.0	150.0			10.0	0.0	0.0	200.0
4.2 Hold Stakeholder meetings		40.0	192.0			0.0	0.0	0.0	232.0
4.3 Site Preparation and Restoration		40.0	75.0			15.0	197.0	0.0	327.0
4.4 Site Revegetation		80.0	75.0			0.0	0.0	16.0	171.0
5. Educational Events		272.0	60.0	0.0	0.0	0.0	0.0	0.0	332.0
5.1 Hold 6 Events (Solano County)		192.0	40.0						232.0
5.2 Hold 6 Events (Merced County)		0.0	0.0						0.0
5.3 Hold Watershed Faire (Solano County)		80.0	20.0						100.0
5.4 Hold Watershed Faire (Merced County)		0.0	0.0						0.0
6. Publications and Outreach		80.0	40.0	0.0	0.0	0.0	0.0	0.0	120.0
6.1 Media Campaign and Public Relations		20.0	10.0						30.0
6.2 Outreach for Events		20.0	10.0						30.0
6.3 Community Relations Activities		20.0	10.0						30.0
6.4 Publications, Lists and Media Materials		20.0	10.0						30.0
7. Evaluation and Assessment		20.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0
7.1 Data Entry		0.0							0.0
7.2 Database Management		0.0							0.0
7.3 Evaluation of Program Events		10.0							10.0
7.4 Data Compilation		10.0							10.0
8. Reporting		8.0	24.0	0.0	0.0	0.0	0.0	0.0	32.0
8.1 Monthly Billings		0.0	0.0						0.0
8.2 Quarterly narrative reports		0.0	8.0						8.0
8.3 Quarterly budget reports		0.0	8.0						8.0
8.4 Annual report		8.0	8.0						16.0
Year II Personnel Totals		860.0	660.0	0.0	80.0	25.0	197.0	16.0	1858.0

Team Member	Gibbs consultant	Morris consultant	Survey consultant	Mgmt Team consultant	Engineering consultant	Site Prep consultant	Site Reveg consultant	Hours by Task
Classification								
Hourly Rate	\$32	\$45	\$55	\$75	\$100	\$130	\$130	
YEAR III TASKS								
2. Planning and Project Management	80.0	24.0	0.0	0.0	0.0	0.0	0.0	104.0
2.2 Hold Quarterly Management Team Meetings	80.0	24.0						104.0
3. Technical Assistance	160.0	80.0	0.0	80.0	0.0	0.0	0.0	320.0
3.3 Farm Site Visits	160.0	80.0		80.0				320.0
5. Educational Events	272.0	80.0	0.0	0.0	0.0	0.0	0.0	352.0
5.1 Hold 6 Events (Solano County)	192.0	40.0						232.0
5.2 Hold 6 Events (Merced County)	0.0							0.0
5.3 Hold Watershed Faire (Solano County)	80.0	40.0						120.0
5.4 Hold Watershed Faire (Merced County)	0.0							0.0
6. Publications and Outreach	160.0	70.0	0.0	0.0	0.0	0.0	0.0	230.0
6.1 Media Campaign and Public Relations	20.0	10.0						30.0
6.2 Outreach for Events	20.0	10.0						30.0
6.3 Community Relations Activities	20.0	10.0						30.0
6.4 Publications, Lists and Media Materials	20.0	10.0						30.0
6.5 Workbook	80.0	30.0						110.0
7. Evaluation and Assessment	60.0	30.0	0.0	0.0	0.0	0.0	0.0	90.0
7.1 Data Entry	0.0							0.0
7.2 Database Management	0.0							0.0
7.3 Evaluation of Program Events	10.0	10.0						20.0
7.4 Data Compilation	10.0	10.0						20.0
7.5 Survey Analysis	40.0	10.0						50.0
8. Reporting	24.0	24.0	0.0	0.0	0.0	0.0	0.0	48.0
8.1 Monthly Billings	0.0	0.0						0.0
8.2 Quarterly narrative reports	8.0	8.0						16.0
8.3 Quarterly budget reports	8.0	8.0						16.0
8.5 Final report	8.0	8.0						16.0
Year III Personnel Totals	756.0	308.0	0.0	80.0	0.0	0.0	0.0	1144.0
TOTAL 3 YEARS	3040.0	1856.0	120.0	336.0	50.0	277.0	96.0	5775.0